STAR Center

Simulation, Training, Assessment & Research



COURSE CATALOG – 2026

Effective Date: January 1, 2026

ABS Quality Evaluations, Inc. ★ Management System Certification ★

ISO 9001
Certificate No. 38806

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www.star-center.com

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Course Catalog – 2026

STAR Center admits students of any race, color, national and ethnic origin or sex.

STAR CENTER OVERVIEW

STAR Center is the choice of inland and ocean going professional mariners throughout the world. Opening in 1983 in Toledo, Ohio, we expanded to our current location in Dania Beach, Florida (just south of Fort Lauderdale) in 1986. After extensive facility improvements we began operations in 1993 with the world's first 360° field-of-view Full Mission bridge simulator, and a second upgrade was to our 270° field-of-view bridge simulator in 2004. We now offer more U.S. Coast Guard and other flag approved courses than any simulation training center. These courses meet USCG, STCW, and IMO Model requirements as well as many additional courses designed by our in-house curriculum development team to meet company-specific training requirements. STAR Center is ISO 9001 certified and is committed to provide the worldwide maritime community with quality marine Simulation, Training, Assessment & Research products and services.



STAR Center features the most advanced simulation training equipment including a 360° bridge, engine room, liquid cargo, diesel electric, RADAR / ARPA, and GMDSS simulators.



STAR Center also features in-house modeling capabilities for port development, research, and forensic maritime studies. Let us model your vessel prior to delivery and train personnel in bridge and engine room familiarization and training.

We offer economical packages that include classes, materials, lodging, and meals. We also have group and volume discounts.

STAR Center is dedicated to providing the highest quality instruction at the most competitive prices. Our courses are tailored to your individual needs and fully integrated to ISM and company policies. We can create your STCW implementation curriculum and "Train-The-Trainer" programs.

This course catalog provides a list of the courses offered at STAR Center and includes the course length, course objectives, course scope, and major topics covered in the course. This is a working course list and is updated annually to include new courses.

Please contact us regarding course availability and registration on our website at:
www.star-center.com

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Admission Policies

CERTIFIED TRUE AND CORRECT IN CONTENT AND POLICY.

Gerard C. Pannell — School Official's Name
Director of Training — Title
 — School Official's Signature

January 1, 2026 — Date
Expiration Date: As superseded

STAR Center — School

2 West Dixie Hwy — Address

Dania Beach, Florida, 33004 — City, State, Zip Code

Background

STAR Center is a not-for-profit, ISO 9001:2015 certified training center. The primary mission is to provide the worldwide maritime industry with quality maritime **S**imulation, **T**raining, **A**ssessment & **R**esearch products and services.

In providing maritime training, class requirements are formally reviewed and approved by the United States Coast Guard and Military Sealift Command. Class requirements are from one (1) day to four (4) weeks although it is often required to take multiple classes consecutively. Such programs are often scheduled in series with discounts offered for completing all classes at STAR Center (please refer to current Training Schedule).

POLICIES:

1. Calendar

a. Legal Holidays Although all federal holidays are recognized no break is permitted when classes are in session. Normal policy is to schedule classes around holidays, but if that is not possible, attendance will be required.

b. Semesters Individual classes are from 1 day to a maximum of 4 weeks duration. Multiple classes may be required to meet merchant marine licensing requirements.

c. Operating Hours Most classes are scheduled from 0800 to 1700 daily. Due to heavy demand for our full mission simulators additional evening session classes may be scheduled from 1600 to 0030. Students will be advised at the time of enrollment of class schedule.

2. Names

a. Institution

i. Name: American Maritime Officers Safety & Education Plan d/b/a STAR Center

ii. DUNS number: 159950401

iii. TIN/EIN: 13-1952549

b. Officials

Director of Training, Gerard C. Pannell

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c. Governing Body

Board of Trustees, American Maritime Officers Safety & Education Plan

d. Faculty

STAR Center employs 40+ full-time staff and 60-70 part-time (adjunct) instructors.

3. Space Classroom space is governed by the United States Coast Guard, which requires 24 square feet per student plus. All of our classrooms comply with that requirement. STAR Center is regularly audited by the US Coast Guard and our external ISO 9001:2015 certification body to insure training is of the highest quality. STAR provides training under various regulatory auspices, e.g. the U.S. Coast Guard and other flag administrations. These administrations require specific performance standards and quality maintenance systems as part of their approval-granting process.

4. Admission Requirements All students sent to STAR for training will meet all applicable flag administration medical/physical requirements and the student will be in satisfactory physical condition to participate in the course for which they are registered. Details can be found in the appropriate course descriptions where appropriate. STAR is not responsible for personal property; such property remains the responsibility of the individual student and shall be safeguarded and secured by the student at all times.

5. Veterans Attendance Policy The following attendance policies apply:

a. Early departures, class cuts, tardiness, etc., for any portion of a class period will be counted as 100% absence.

Students exceeding 0% total absences within a course will be terminated from their VA benefits for unsatisfactory attendance.

In order to show that the cause of unsatisfactory attendance has been removed, students must show good attendance (as defined) for one calendar month after being terminated for unsatisfactory attendance. After such time, the student may be recertified for VA education benefits.

The student's attendance record will be retained in the veteran's file for USDVA and SAA audit purposes.

b. STAR shall not be responsible for delays resulting from acts of God, strikes, lockouts, disruptions in transportation, employee death, or any other cause that is outside the reasonable control of STAR. It is understood and agreed that if STAR becomes subject to a Hurricane Watch issued by the National Hurricane Center and it is determined that STAR has a reasonable chance of being impacted by the storm scheduled classes may be cancelled immediately without penalty. Personnel attending class shall be required to evacuate the campus at the earliest opportunity and their onward travel shall be their responsibility. STAR will assist where possible but shall not assume any liability or responsibility for onward arrangements. Students will be invoiced for room and board charges accrued to the time of departure. The canceled course will be rescheduled at the earliest mutually agreeable opportunity.

6. Standards of Academic Progress for VA Students This section does not apply to any class of less than four (4) weeks' duration.

Students receiving VA educational benefits must achieve a minimum score of 70% for the duration of the course in order to graduate. Certain courses will require a higher standard and students will be advised accordingly.

A VA student whose scores below the course standard (see syllabus) in any mid-course progress review exam will be placed on academic probation for a maximum of two (2) weeks or until one week prior to course completion, as determined by course length. If the VA student's score is still below the course standard (see syllabus) at the end of the period of probation, the student's monthly housing stipend will be terminated.
A VA student terminated from VA benefits due to unsatisfactory progress may petition the school to be recertified after attaining a score of 70%.

7. Standards of Academic Progress (Non-VA Students) As classes offered vary in duration from 1 day to 4 weeks progress standards vary accordingly. Standards for successful completion are clearly defined, and in the case of:

US Coast Guard approved classes, the standard is defined by that body. Passing scores vary from 70% to 90%. Only a passing score is considered satisfactory. Unsatisfactory scores will result in course failure and require retest or retake of the entire course. In all cases of final exam failure, a retest may be administered immediately. A second retest may be granted, if required, up to 12 months following course completion. If a second retest results in failure, the entire course must be retaken at the expense of the student, when applicable. There is no probationary period allowed. Subject to meeting the medical fitness standard and any academic prerequisite, re-entrance shall be permitted at the next scheduled class subject to space being available. Any expenses, including tuition fees, shall be payable for repeating a class when required and applicable. All course records are maintained for US Coast Guard audit requirements for a period of at least 1 year. Records may be scanned electronically and maintained indefinitely.

It is understood and agreed by and between STAR and attending students that in agreeing to train and/or evaluate the deck, engineer, radio officer or unlicensed ratings (sometimes herein referred as "Officer/Unlicensed Ratings"), STAR makes no representations or express or implied warranties as to the fitness or ability of said deck, engineer, radio officers, or unlicensed rating to serve in such capacities while actually employed aboard any vessels or any other company entity beyond certifying as appropriate that said Officers/ Unlicensed Ratings have satisfactorily completed the training which STAR provides for license issuance, license renewal, license upgrade or other training or certification in accord with applicable U.S. Coast Guard or other governmental regulations, international convention, or treaty requirements as may be applicable. Attending students shall indemnify, provide counsel, and hold STAR harmless from any and all claims for damages or other judicial or arbitral relief which may be asserted against STAR for training or performing any competency evaluation of said Officers/Unlicensed Ratings.

8. Student Conduct STAR expressly reserves the sole and exclusive right to determine whether any student seeking admission or admitted to any course conducted by STAR, a subcontractor, or joint venture, shall be admitted or continue to be enrolled in any such course because of prior misconduct or misconduct in the course, classroom, or on or off the premises which, in the sole judgment of the Director or his designee, adversely reflects on STAR. Any student dismissed for conduct is eligible for readmission in accordance with STAR's application policy.

9. Veteran's Credit for Previous Education or Training Students must report all previous post-secondary education and training. The school must maintain a written record that clearly indicates official transcripts have been obtained from all post-secondary institutions that the student has attended, those transcripts have been reviewed and evaluated, and appropriate credit has been granted toward the student's current program, with training time shortened and tuition reduced proportionately, and the veteran so notified.

10. Course Outlines The course outline for each course offered is described in the Course Catalog. An overview of the subjects covered, terminal objective(s), and class duration are given.

11. Tuition and Fees Tuition and other fees are reviewed and approved annually, or as otherwise required, by the board of trustees of American Maritime Officers Safety & Education Plan. They are advertised in the Training Schedule, available separately, updated monthly, and posted online at https://www.star-center.com/schedule.html

12. VA Pending Payment Compliance In accordance with Title 38 US Code 3679 subsection (e), the STAR Center adopts the following additional provisions for any Veteran Student using U.S. Department of Veterans Affairs Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation & Employment (Ch. 31) benefits, while payment to the STAR Center is pending from the VA. The STAR Center will not:

- Prevent the student's enrollment;
- Asses a late penalty fee to the student;
- Require the student to secure alternative or additional funding;

- Deny the student access to any resources (access to classes, liberties, or other institutional facilities) available to other students who have satisfied their tuition and fees bills to the STAR Center.

However, to qualify for this provision, such students may be required to:

- Produce the VA Certificate of Eligibility (COE) by the first day of class;
- Provide a written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other STAR Center Policies.

13. Certificates All students successfully completing their class shall be issued a STAR Center certificate as required by the approving authority.

14. Veteran's Refund Policy In accordance with 38 CFR 21.4255, the refund of the unused portion of tuition, fees, and other charges for veterans or eligible persons who fail to enter a course or withdraw or discontinue prior to completion will be made for all amounts paid which exceed the approximate pro rata portion of the total charges that the length of the completed portion of the course bears to the total length of the course. The proration will be determined on the ratio of the number of days or hours of instruction completed by the student to the total number of instructional days or hours in the course and must be pro rata to the very end.

15. Non-Veteran Refund Policy In the event a student does not enter a course, the following cancellation/rescheduling policy applies: tuition fees paid in advance (deposits) shall be applied to a future course without penalty. No refunds shall be made unless notice is given more than two (2) weeks prior to the scheduled class start date. As all classes are of a relatively short duration no refunds shall be given in the event a student withdraws or is discontinued. However, subject to the attendance/make-up policy described above, reassignment to another scheduled class to meet course completion requirements shall be made at no additional charge. No refunds are payable for room and board costs incurred, which are payable in full.

16. Other Approvals STAR is an ISO 9001 organization and as such must meet specific quality standards and is subject to third party audit and oversight. STAR may be required and reserves the right to monitor and/or record classroom and simulator courses at STAR facilities and at off-site locations. Any materials derived from these actions constitute copyright(s) of STAR CENTER.

17. STAR Center does not discriminate on the basis of any race, color, national and ethnic origin or sex.

STAR Center Classrooms – Room Size

Room #	Room Name and Primary Function	MAX # Students	SQ Ft.
101	Engineering classroom	24	784
104	Electrical Classroom/Engineering Computer Lab (12 x student PCs)	20	520
105	Engineering Classroom/Computer Lab (12 x student PCs)	20	520
108	Engineering classroom / Distance Learning Delivery Room	8	260
109	Engineering classroom / Distance Learning Delivery Room	8	262
201	Deck courses (12 x student PCs)	18	527
203	Deck Self-Study room/Computer Lab (8 x student PCs)	12	484
205	Self-Study	4	239
206	General Classroom / BT/Adv F/F	24	693
207	Medical Classroom	24	784
211A	Engineering classes / Neptune Engine Simulation (8 x student PCs)	16	443
211B	Deck and Engineering classes / Neptune Engine Simulation (8 x student PCs) – Distance Learning Delivery Room	24	443
211F	Engine Simulator Classroom / Engineering classes	12	356
211G	Deck and Engineering classes / Neptune PrC Simulator (8 x student PCs)	11	435
217	Banquet Room – Deck and Engine classes	24	3,450
218	Self-study Engineering Classroom (6 x Student PCs)	8	276
301	Deck classes - Adv Stability, Cargo, LNG and navigation support (12 x student PCs)	18	523
302	Navigation & General classroom	24	957
303	Voyage Planning	24	688
305	ECDIS & GMDSS & Classroom (9 x student PCs)	24	558
308	Deck Simulator Debrief Room	12	344
312	Deck Simulator Debrief Room	12	360
M405	DP Training/General Classroom (6 x student PCs)	12	392
MSC 110	Small Arms & MSC Classes/General Classes	24	1,080
MSC 111	Small Arms & MSC Classes/General Classes	24	1,005

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I. GENERAL COURSES

Advanced Chemical Tanker (Professional Development)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Advanced Chemical Tanker Cargo Operations . Additionally, students will gain knowledge of:

- Chemical Tankers
- Chemical Product Properties
- Health Hazards
- International and National Regulations and Codes
- Ship Design and Cargo Containment
- Tank, Piping and Valves
- Pollution Prevention
- Cargo Handling and Ballast Procedures
- Tank Cleaning Operations
- Ship to Shore Interface
- Emergency Procedures

This Course is intended for Professional Development

Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to obtain detailed knowledge to support the training outcomes related to Cargo Handling and Stowage for Chemical Tankers. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:
"Each student who successfully completes this non approved course will have knowledge, understanding and proficiency as listed in STCW Table A-V/1-1-3 for Advanced Chemical Tanker Cargo Operations including knowledge of Chemical Tankers, Chemical Product Properties, Health Hazards, International and National Regulations and Codes, Ship Design and Cargo Containment, Tanks, Piping, Valves, Pollution Prevention, Cargo Handling and Ballast Procedures, Tank Cleaning Operations, Ship to Shore Interface and Emergency Procedures."

Entry standards
This course is open to students who have a need for such training, be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

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Advanced Fire Fighting Refresher (STRCTR-697)

Length 1½ days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Advanced Firefighting Refresher and meet these requirements for the following areas:

1. Control firefighting operations aboard ships:
    a. Use of water for fire-extinguishing, the effect on ship stability, precautions, and corrective procedures; and
    b. Firefighting involving dangerous goods;
2. Organize and train fire parties;
3. Inspect and service fire-detection and extinguishing systems and equipment:
    a. Fire-detection systems; fixed fire-extinguishing systems; portable and mobile fire-extinguishing equipment, including appliances, pumps and rescue; salvage; life support; personal protective and communication equipment; and
4. Investigate and compile reports on incidents involving fire.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Fire Fighting Refresher (STRCTR-697)* course will satisfy the standards of competence required by 46 CFR 11.303(e) for mariners who have previously held an Advanced Fire Fighting endorsement under STCW Code Section A-VI/3 but cannot meet the requirement for 1 year of sea service in last 5 years; STCW Code Section A-VI/3 and Table A-VI/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 09-14(Ch-1), all Tasks. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This is a classroom course that is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health, speak and understand English.

Teaching Facility
STAR Center, Dania Beach, Florida





*May also be offered as an online course. Please contact Student Services for more information.

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Advanced Fire Fighting Revalidation (STRCTR-777)

Length 1 day

Objective
This course is intended to meet the Advanced Firefighting Revalidation training requirements of STCW Code Section A-VI/3 and 46 CFR 11.201(h)(1), and 11.303(d), provided that the mariner has at least 1 year of sea service within the last 5 years. Each student who successfully completes this course will be knowledgeable and proficient in Advanced Firefighting Revalidation and meet these requirements for the following areas:

1. Control firefighting operations aboard ships:
    a. Use of water for fire-extinguishing, the effect on ship stability, precautions, and corrective procedures; and
    b. Firefighting involving dangerous goods;
2. Organize and train fire parties;
3. Inspect and service fire-detection and extinguishing systems and equipment:
    a. Fire-detection systems; fixed fire-extinguishing systems; portable and mobile fire-extinguishing equipment, including appliances, pumps and rescue; salvage; life support; personal protective and communication equipment; and
4. Investigate and compile reports on incidents involving fire.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Fire Fighting Revalidation (STRCTR-777)* course will satisfy: The Advanced Fire Fighting continued standards of competence required by 46 CFR 11.303(b) for mariners who have previously held an Advanced Fire Fighting endorsement under STCW Code Section A-VI/3, PROVIDED that the mariner has at least 1 year of sea service within the last 5 years; STCW Code Section A-VI/3 and Table A-VI/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 09-14(ch-1) Tasks 1.3.A, 1.5.A, 2.1.A, 2.1.B, 3.1.A, 3.1.B, 4.1.A, 4.1.B and 4.1.C. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course will be delivered through:

- Classroom and lab presentations and equipment, as well as live fire drills
- STAR Center produced Instructor Exercise Plans

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should possess the appropriate Advanced Firefighting endorsement be in good physical health and speaks and understands English and have at least 1 year of sea service within the last 5 years on vessels that regularly hold fire and boat drills.

Please be prepared for class with the following:
IN ORDER TO PARTICIPATE IN THE PRACTICAL EXERCISES, STUDENTS ARE REQUIRED:

- WEAR **LONG PANTS, AND SOCKS** FOR FIREFIGHTING; ALL OTHER EQUIPMENT PROVIDED BY THE FIREFIELD

Teaching Facility
STAR Center, Dania Beach, Florida





*May also be offered as an online course. Please contact Student Services for more information.

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Fire Fighting Classes

Facial Hair – No Interference with Facepiece Seal

STAR Center carries out the practical competency demonstrations required for firefighting certification. In order to complete the demonstrations safely, strict interpretation of the following regulations will be applied, and facial hair should be trimmed or removed accordingly so as not to interfere with the facepiece seal:

1. Occupational Safety & Health – Title 29 CFR 1910.134
    a. Facepiece Seal Protection
        i. The employer shall not permit respirators with tight-fitting facepieces to be worn by employees who have:
            1. Facial hair that comes between the sealing surface of the facepiece and the face or that interferes with valve function; or
            2. Any condition that interferes with the face-to-facepiece seal or valve function.
        ii. If an employee wears corrective glasses or goggles or other protective equipment, the employer shall insure that such equipment is worn in such a manner that does not interfere with the seal of the facepiece to the face of the user.
    b. Additionally, when discussing the fit test requirements, OSHA states:
        i. The test shall not be conducted if there is any hair growth between the skin and the facepiece sealing surface, such as stubble hair growth, beard, mustache or sideburns which cross the respirator sealing surface.
2. National Fire Protection Association (NFPA) 1500: Standard on Fire Department Occupational Safety & Health Program, 1997 Edition, Section 5-3.10:
    a. Members who have a beard or facial hair at any point where the SCBA facepiece is designed to seal with the face, or hair that could interfere with the operation of the unit, shall not be permitted to use respiratory protection at emergency incidents or in hazardous or potentially hazardous atmospheres. These restrictions shall apply regardless of the specific fit test measurement that can be obtained under the test conditions.
3. National Institute of Occupational Health & Safety in the NIOSH Guide to Industrial Respiratory Protection:
    a. Facial hair that lies along the sealing area of the respirator, such as beards, sideburns, moustaches or even a few days growth of stubble, should not be permitted on employees who are required to wear respirators that rely on a tight facepiece fit to achieve maximum protection. Facial hair between the wearer's skin and the sealing surface will prevent a good seal.
4. American National Standards Institute (ANSI) – Z88.2-1992 (Respiratory Protection):
    a. A respirator, either positive or negative pressure, equipped with a facepiece (tight or loose fitting) shall not be worn if facial hair comes between the sealing surface of the facepiece and the face or if facial hair interferes with the valve function.

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Assessment of Seafarer Proficiency (STRCTR-683)

Length 5 days (After hours homework required)

Objective
Each student who successfully completes this course, supplemented by appropriate on-the-job training, will be able to design examinations, prepare and validate questions, and conduct assessment of competency through written examination, oral examination and practical demonstration. The broad objectives of the course are that the trainee will:

- Identify assessment objectives.
- Determine the appropriate assessment methods through an in-depth review of assessment methodology.
- Specify assessment conditions.
- Develop performance measures and standards.
- Prepare assessment procedures, examinations and demonstration documentation materials and review the organization and administration of assessment.
- Conduct an assessment.
- Discuss refining the assessment procedure.

This Course is USCG Approved and STCW Compliant. The course certificate will state:
"Any applicant who has successfully completed our *Assessment of Seafarer Proficiency (STRCTR-683)* course will satisfy the training requirement of Section A-I/6, Paragraphs 6.3 of the STCW Code, as Amended; and the assessment training requirements of Section A-I/6, Paragraph 7 of the STCW Code, as Amended."

Scope
This is a course on the assessment of seafarers covering an in-depth review of assessment methodology and the organization and administration of examinations. It introduces the overall process of developing assessment procedures and conducting valid assessments of seafarer proficiency through written examination, verbal examination and demonstration.

Instruction is intended to meet the training requirements of the Seafarers' Training and Certification of Watchkeepers Code as amended (STCW Code) as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended.

Each student should hold a certificate of competency no lower than the certificate or qualification which is to be assessed and have a thorough knowledge of both the theoretical and practical aspects of all subjects involved. Other qualifications may be recognized an equivalent in the case of those trainees who are to conduct assessment in academic or specialized subjects. Trainees should be fluent in the English language. Prerequisite training for trainees is the STAR Center Instructor, Supervisor, and Assessor Train-The-Trainer Course or at least 40 hours of equivalent training.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

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Basic Training (STRCTR-65) (40 hours – 4 modules)

Length 5 days (4 modules)

Objectives
To be able to react in a correct manner during emergency situations, take measures appropriate for his/her own survival and to the survival of others, and use survival equipment correctly.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Basic Training (STRCTR-65)* course will satisfy 1. The Basic Training per STCW Code, as amended 2010 Section A-VI/1; AND 2. the Personal Survival Techniques per 46 CFR 11.302(a)(1) and 46 CFR 12.602(a)(1); AND, 3. The Basic Fire Fighting per 46 CFR 11.201(h)(2) [*BASIC Only*] and 46 CFR 11.201(h)(3); AND, 4. The Fire Prevention and Fire Fighting per 46 CFR 11.302(a)(2) and 46 CFR 12.602(a)(2); and, 5. The Fire Fighting requirements per 46 CFR 13.201 (c)(3), 13.301(c)(3), 13.401(d) and 13.501(c)(3) for any tankerman endorsement; AND 6. The First Aid & CPR requirements per 46 CFR 11.201(i)(1); AND *when applied for within one year of the date of training*; AND, 7. The Personal Safety & Social Responsibilities per 46 CFR 11.302(a)(4) and 46 CFR 11.602 (a)(4); AND 8. The practical assessments performed during this course have been determined to be equivalent of National Assessment Guidelines for STCW Code, as amended 2010 Tables A-VI/1-1, 1-2, 1-3, and 1-4, as documented in NVIC 08-14."

Scope
This course meets all STCW requirements for Basic Training in accordance with Chapter VI and Tables A-VI/1-1 through 1-4 in the areas of:

- Personal Safety and Social Responsibilities (STRCTR-359)
- Basic Fire Fighting (STRCTR-53)
- Elementary First Aid (STRCTR-183)
- Personal Survival Techniques (STRCTR-363)

Entry Standards
Students must be at least 18 years old and meet the physical fitness requirements stated in 46CFR 10.205.

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Basic Fire Fighting (STRCTR-53)

Length 2 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Fire Prevention and Fire Fighting and meet these requirements for the following areas:

Fire prevention and firefighting as set out in Table A-VI/1-2 of the STCW Code:

i. Use various types of portable fire extinguishers;
ii. Extinguish smaller fires, e.g., electrical fires, oil fires, and propane fires;
iii. Extinguish extensive fires with water, using jet and spray nozzles;
iv. Extinguish fires with foam, powder, or any other suitable chemical agent;
v. Fight fire in smoke-filled enclosed spaces wearing self-contained breathing apparatus;
vi. Extinguish fire with water fog or any other suitable firefighting agent in an accommodation room or simulated engine room with fire and heavy smoke; and
vii. Extinguish oil fire with fog applicator and spray nozzles, dry chemical powder.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Basic Fire Fighting (STRCTR-53)* course will satisfy 1. Fire Prevention and Fire Fighting per STCW Code, as amended 2010 Section A-VI/1; AND, 2. Fire Prevention and Fire Fighting per 46 CFR 11.302(a)(2) and 46 CFR 12.602 (a)(2); AND 3. Basic Fire Fighting per 46 CFR 11.201 (h)(2) [Basic only] and 46 CFR 11.201(h)(3); AND 4. The Fire Fighting requirements for a national tankerman endorsement. in 46 CFR 13.201,(c)(3), 13.301 (c)(3), 13.401 (d), and 13.501 (c)(3); AND 5. The following practical assessments performed during this course have been determined to be equivalent of National Assessment Guidelines for STCW Code, as amended 2010 Table A-VI/1-2, as documented in NVIC 08-14: 2.1.A, 2.2.A, 2.3.A, 2.4.A, 2.5.A, 2.5.B, 2.5.C, 2.6.A, 2.7.A, 2.8.A, 2.8.B, 2.8.C, 2.9.A, 2.9.B, 3.1.A, 3.2.B, 3.3.A, 3.4.A, 3.4.B, 3.5.A, 3.6.A, 3.2.A, 3.7.A, 3.8.A, 3.8.B, 3.8.C, and 3.8.D."

Scope
This is a course that is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
No prior shipboard experience is required. Students must be at least 18 years old and meet the physical fitness requirements stated in 46 CFR 10.205.

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First Aid & CPR (STRCTR-197)

Length 1 day

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Elementary First Aid-CPR and meet these requirements for the following areas:

1. Elementary First Aid-CPR requirements as set out in Table A-VI/1-3 of the STCW Code:
    - Take immediate action upon encountering an accident or other medical emergency
    - Assessment of needs of casualties and threats to own safety
    - Appreciation of body structure and functions
    - Understanding of immediate measures to be taken in cases of emergency, including the ability to:
        1. position casualty
        2. apply resuscitation techniques
        3. control bleeding
        4. apply appropriate measures of basic shock management
        5. apply appropriate measures in event of burns and scalds, including accidents caused by electric current
        6. rescue and transport a casualty
        7. improvise bandages and use materials in the emergency kit

This Course is USCG Approved and STCW Compliant. The certificate will state:

Any applicant who has successfully completed our *First Aid & CPR (STRCTR-197)* course will satisfy the following requirements:

- Elementary First Aid per STCW Code Table A-VI/1-3.
- Elementary First Aid per 46 CFR 11.302(a)(3) and 46 CFR 12.602(a)(3); and the first aid and CPR training requirements of 46 CFR 11.201(i)(1)."

Scope
This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

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Personal Survival Techniques (STRCTR-363)

Length 1½ days

Objective
The objective of this course is to provide appropriate original or recurrent training or instruction to survive at sea in the event of ship abandonment as set out in STCW Code Table A-VI/1-4.

Individuals will be required to demonstrate competency in accordance with the methods and criteria for evaluating competence tabulated in columns 3 and 4 of those tables through examination and/or continuous assessment throughout the course.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Personal Survival Techniques (STRCTR-363)* course will satisfy the Personal Survival Techniques competencies to survive at sea in the event of ship abandonment of Section A-VI/1 and Table A-VI/1-1 of the STCW Code, as amended, and 46 CFR 11.202(b)(1)."

Scope
This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
Students must be or have a contract to be employed on board ship on the business of that ship as part of the ship's complement with designated safety or pollution prevention duties. Students must be at least 18 years old.

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Personal Safety & Social Responsibilities (4-hour) (STRCTR-359)

Length ½ day

Objective
The objective of this course is to provide appropriate training or instruction in the following personal safety and social responsibilities areas as set out in STCW Code Table A-VI/1-4 which include:

1. Comply with emergency procedures;
2. Take precautions to prevent pollution of the marine environment;
3. Observe safe working practices;
4. Understand orders and be understood in relation to shipboard duties; and,
5. Contribute to effective human relationships on board ship.

Individuals will be required to demonstrate competence in accordance with the methods and criteria for evaluating competence tabulated in columns 3 and 4 of those tables through examination and/or continuous assessment throughout the course.

The course is also designed to satisfy the requirements of 46 CFR 205(l)(1)(4) for new seafarers and 46 CFR 15.1105(c) for existing seafarers.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Personal Safety & Social Responsibilities (STRCTR-359)* course will satisfy the Personal Safety & Social Responsibilities competencies *to comply with emergency procedures, take precautions to prevent pollution of the marine environment, and observe safe working practices* of Section A-VI/1 and Table A-VI/1-4 of the STCW Code, as amended, and 46 CFR 11.202(b)(4)."

Scope
This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standard
Students must be at least 18 years old and meet the physical fitness requirements stated in 46 CFR 10.205.

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Basic Training Revalidation (STRCTR-718) (1 day)

Length 1 day

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Personal Survival Techniques and Fire Prevention and Fire Fighting Revalidation and will meet these requirements in the following areas:

1. Personal Survival Techniques as set out in Table A-VI/1-1 of the STCW Code:
   a. Don and use an immersion suit;
   b. Safely jump from a height into the water;
   c. Right an inverted life raft while wearing a lifejacket;
   d. Swim while wearing a lifejacket; and
   e. Keep afloat without a lifejacket.
2. Fire prevention and firefighting as set out in Table A-VI/1-2 of the STCW Code:
   a. Use various types of portable fire extinguishers;
   b. Extinguish smaller fires, e.g., electrical fires, oil fires, and propane fires;
   c. Extinguish extensive fires with water, using jet and spray nozzles;
   d. Extinguish fires with foam, powder, or any other suitable chemical agent;
   e. Fight fire in smoke-filled enclosed spaces wearing self-contained breathing apparatus;
   f. Extinguish fire with water fog or any other suitable firefighting agent in an accommodation room or simulated engine room with fire and heavy smoke; and
   g. Extinguish oil fire with fog applicator and spray nozzles, dry chemical powder.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who successfully completes our *Basic Training Revalidation (STRCTR-718)* course will satisfy: The Basic Training continued standards of competence required by 46 CFR 11.302(d) and 12.602(d) for mariners who have previously held a Basic Training endorsement under STCW Code Section A-VI/1, PROVIDED that the mariner has at least 1 year of sea service within the last 5 years; STCW Code Section A-VI/1 and Tables A-VI/1-1 and 1-2, as amended 2010, meeting the National Assessment Guidelines from NVIC 08-14(Ch-1) Tasks 1.14.B, 1.14.D, 1.14.E, 1.14.F, 1.14.G, 3.7.A, 3.8.A, 3.8.B, 3.8.C, and 3.8.D. Applicants who have successfully completed our course need not present completed "Task Control Sheets' for these assessments in application for STCW certification."

Scope

This course will be delivered through:

- Lab Presentations and equipment, including live fire and pool drills
- STAR Center produced Instructor Exercise Plans

Entry standards

This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should possess the appropriate BT endorsement be in good physical health and speaks and understands English and have at least 1 year of sea service within the last 5 years on vessels that regularly hold fire and boat drills

Please be prepared for class with the following:
IN ORDER TO PARTICIPATE IN THE PRACTICAL EXERCISES, STUDENTS ARE REQUIRED:

- TO BRING A SWIMSUIT FOR POOL SESSION.
- WEAR **LONG PANTS, AND SOCKS** FOR FIREFIGHTING; ALL OTHER EQUIPMENT PROVIDED BY THE FIREFIELD

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Personal Survival Techniques Revalidation (STRCTR-791)

Length ½ day

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Personal Survival Techniques Revalidation and meet these requirements for the following areas:

2. Personal survival techniques as set out in Table A-VI/1-1 of the STCW Code:
   i. Don and use an immersion suit;
   ii. Safely jump from a height into the water;
   iii. Right an inverted life raft while wearing a lifejacket;
   iv. Swim while wearing a lifejacket; and

Keep afloat without a lifejacket.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Personal Survival Techniques Revalidation (STRCTR-791)* course will satisfy:

- The Personal Survival Techniques continued standards of competence required by 46 CFR 11.302(d)(1) and 12.602(d)(1) for mariners who have previously held a Basic Training endorsement under STCW Code Section A-VI/1, PROVIDED that the mariner has at least 1 year of sea service within the last 5 years; STCW Code Section A-VI/1 and Table A-VI/1-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 08-14(Ch-1) Tasks 1.14B, 1.14D, 1.14E, 1.14F, 1.14.G. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet the USCG Certificate section as listed above.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English and has at least 1 year of sea service within the last 5 years.

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Basic Training Refresher (STRCTR-68) (3 days)

Length 3 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Fire Prevention and Fire Fighting and meet these requirements for the following areas:

1. Fire prevention and firefighting as set out in Table A-VI/1-2 of the STCW Code:
   i. Use various types of portable fire extinguishers;
   ii. Extinguish smaller fires, e.g., electrical fires, oil fires, and propane fires;
   iii. Extinguish extensive fires with water, using jet and spray nozzles;
   iv. Extinguish fires with foam, powder, or any other suitable chemical agent;
   v. Fight fire in smoke-filled enclosed spaces wearing self-contained breathing apparatus;
   vi. Extinguish fire with water fog or any other suitable firefighting agent in an accommodation room or simulated engine room with fire and heavy smoke; and
   vii. Extinguish oil fire with fog applicator and spray nozzles, dry chemical powder.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Basic Training Refresher (STRCTR-68)* course will satisfy the continued competency requirements for STCW Basic Training in STCW, as amended 2010, Basic Training in Section A-VI/1, 46 CFR 11.302 (e) and 46 CFR 12.602(e), AND all of the tasks from the National Assessment Guidelines found in NVIC 08-14. Applicants are not required to present completed record of assessment sheets when applying for the STCW endorsement."

Scope
This is a course that is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English and has at least 1 year of sea service within the last 5 years.

Please be prepared for class with the following:
IN ORDER TO PARTICIPATE IN THE PRACTICAL EXERCISES, STUDENTS ARE REQUIRED:

- TO BRING A SWIMSUIT FOR POOL SESSION.
- WEAR **LONG PANTS, AND SOCKS** FOR FIREFIGHTING; ALL OTHER EQUIPMENT PROVIDED BY THE FIREFIELD

PSSR Refresher Module I (2 hours)

Length 2 hours

Scope
This course is intended to meet the continued competency requirements for the Personal Survival Techniques section of Basic Training revalidation requirements in STCW Section A-VI/1, 46 CFR 11.302(e) and 46 CFR 12.602(e).

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Personal Safety and Social Responsibilities Refresher Training and meeting this requirement for the following areas:

1. Personal Safety and Social Responsibilities as set out in Table A-VI/1-4 of the STCW Code:
   - Comply with emergency procedures
   - Take precautions to prevent pollution of the marine environment
   - Observe safe working practices
   - Contribute to effective communications on board ship
   - Contribute to effective human relationships on board ship
   - Understand and take necessary actions to control fatigue

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Elementary First Aid Refresher Module II (8 hours)

Length 1 day

Scope
This course is intended to meet the continued competency requirements for the Elementary First Aid-CPR section of Basic Training revalidation requirements in STCW Section A-VI/1, 46 CFR 11.302(e) and 46 CFR 12.602(e) and the first aid and CPR training requirements of 46 CFR 11.201(i)(1). The practical assessments conducted in this course are accepted as the equivalent of the following assessments from the National Assessment Guidelines for Table A-VI/1-3 of the STCW Code as amended: Task 4.4.A, Task 4.4.B, Task 4.4.D, Task 4.4.E, Task 4.4.F, Task 4.4.G, Task 4.4.H, Task 4.4.I, Task 4.5.A, Task 4.8.C, Task 4.8.D and, Task 4.9.A, from NVIC 08-14.

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Elementary First Aid-CPR Refresher Training and meeting these requirements for the following areas:

1. Elementary First Aid-CPR requirements as set out in Table A-VI/1-3 of the STCW Code:
   - Take immediate action upon encountering an accident or other medical emergency
   - Assessment of needs of casualties and threats to own safety
   - Appreciation of body structure and functions
   - Understanding of immediate measures to be taken in cases of emergency, including the ability to:
     8. position casualty
     9. apply resuscitation techniques
     10. control bleeding
     11. apply appropriate measures of basic shock management
     12. apply appropriate measures in event of burns and scalds, including accidents caused by electric current
     13. rescue and transport a casualty
     14. improvise bandages and use materials in the emergency kit

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

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Personal Survival Techniques Refresher Module III (6 hours)

Length 1 day

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Personal Survival Techniques Refresher Training and meeting these requirements for the following areas:

1. Personal survival techniques as set out in Table A-VI/1-1 of the STCW Code:
   i. Don a lifejacket
   ii. Don and use an immersion suit;

iii. Safely jump from a height into the water;
iv. Right an inverted life raft while wearing a lifejacket;
v. Swim while wearing a lifejacket; and
vi. Keep afloat without a lifejacket.
vii. Board survival craft from a vessel and water
viii. Actions to enhance survival in a life raft
ix. Steam a sea anchor
x. Operate survival craft equipment
xi. Operate location devices including radio equipment

This Course is USCG Approved and STCW Compliant. The course certificate will state:
Any applicant who has successfully completed our *Personal Survival Techniques Refresher (STRCTR-736*) course will satisfy the standards of competence required by 46 CFR 11.302(e) and 12.602(e) for mariners who have previously held a Basic Training endorsement under STCW Code Section A-VI/1 but cannot meet the requirement for 1 year of sea service in last 5 years; STCW Code Section A-VI/1 and Table A-VI/1-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 08-14(Ch-1) Tasks 1.1.A, 1.2.A, 1.3.A, 1.3.B, 1.3.C, 1.4.A, 1.5.A, 1.6.A, 1.7.A, 1.8.A, 1.9.A, 1.10.A, 1.11.A, 1.12.A, 1.12.B, 1.13.A, 1.14.A, 1.14.B, 1.14.C, 1.14.D, 1.14.E, 1.14.F, 1.14.G, 1.14.H, 1.14.I, 1.14.J, 1.14.K, 1.14.L, 1.14.M, and 1.14.N." Applicants who have successfully completed this course need not present completed "Task Control Sheets' for these assessments in application for STCW certification.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Basic Firefighting Refresher Module IV (9 hours)

Length 1 day

Scope
This course is intended to satisfy the continued competency requirements for STCW the Fire Prevention and Fire Fighting section of Basic Training Refresher in STCW Section A-VI/1-2; 46 CFR 11.302(e) and 46 CFR 12.602(e). The assessments conducted in this course are from the National Assessment Guidelines for Table A-VI/1-2 of the STCW Code as amended and listed in NVIC 08-14 as Tasks: 3.2.A, 3.7.A, 3.8.A, 3.8.B, 3.8.C and 3.8.D.

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Fire Prevention and Fire Fighting and meeting this requirement for the following areas:
1. Fire prevention and firefighting as set out in Table A-VI/1-2 of the STCW Code:
   i. Use various types of portable fire extinguishers;
   ii. Extinguish smaller fires, e.g., electrical fires, oil fires, and propane fires;
   iii. Extinguish extensive fires with water, using jet and spray nozzles;
   iv. Extinguish fires with foam, powder, or any other suitable chemical agent;
   v. Fight fire in smoke-filled enclosed spaces wearing self-contained breathing apparatus;
   vi. Extinguish fire with water fog or any other suitable firefighting agent in an accommodation room or simulated engine room with fire and heavy smoke; and
   vii. Extinguish oil fire with fog applicator and spray nozzles, dry chemical powder.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Combined Basic & Advanced Fire Fighting (STRCTR-125)

Length 5 days

Objective

The realistic live fire training is combined with classroom work and open forum discussions with a focus on personal safety, teamwork, command & control and fire prevention to prepare; the student to meet the unique challenges of marine firefighting.
Each student who successfully completes this course will be knowledgeable and proficient in Basic and Advanced Firefighting and meeting this requirement with Section A-VI/1-2 and A-VI/3 of the STCW Code, as amended. This emphasis if the training is in Organization, tactics and command as follows:

1. Control of Firefighting Operations
2. Organize and Train Fire Parties
3. Inspection of Fire Systems (detection and extinguishing)
4. Fire Investigations, incidents and reporting

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Combined Basic & Advanced Fire Fighting course (STRCTR-125)* will satisfy: (1) The Basic and Advanced Fire Fighting requirements of 46 CFR 11.201(h); AND (2) The Fire Fighting training requirements of 46 CFR 13.121(e)(3); AND (3) The Fire Fighting requirements for a national tankerman endorsement in 46 CFR 13.201(c)(3), 13.301(c)(3), 13.401(d) and 13.501(c)(3); AND (4) The Basic Fire Fighting standards of competence required by 46 CFR 11.302(a)(2) and 12.602(a)(2); STCW Code Section A-VI/1 and Table A-VI/1-2, as amended 2010, meeting the National Assessment Guidelines from NVIC 08-14(Ch-1) Tasks: 2.1.A; 2.2.A; 2.3.A; 2.4.A; 2.5.A; 2.5.B; 2.5.C; 2.6.A; 2.7.A; 2.8.A; 2.8.B; 2.8.C; 2.9.A; 2.9.B; 3.1.A.; 3.2.A; 3.2.B; 3.3.A; 3.4.A; 3.4.B; 3.5.A; 3.6.A; 3.7.A; 3.8.A; 3.8.B; 3.8.C; and 3.8.D; AND (5) The Advanced Fire Fighting standards of competence required by 11.303(a); STCW Code Section A-VI/3 and Table A-VI/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 09-14(Ch-1), all Tasks.

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This 5-day combined basic and advanced shipboard firefighting course provides extensive knowledge, and instruction in a variety of marine firefighting subjects. This course is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Teaching Facility
STAR Center, Dania Beach, FL



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Combined Basic & Advanced IGF Code Operations (STRCTR-807) (LNG Fuel)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in basic and advanced IGF Code LG fueled vessel operations. Additionally, students will gain knowledge and understanding of:

- The physical and chemical properties of fuels aboard ships subject to the IGF Code
- The ability to safely perform and monitor all operations related to the fuels used on board ships subject to the IGF Code
- The precautions to prevent hazards
- Risk analysis for the fuels used on board ships subject to the IGF Code
- Occupational health and safety precautions and measures on board ships subject to the IGF Code
- The knowledge of the prevention, control and firefighting and extinguishing systems on board ships subject to the IGF Code
- The precautions to prevent pollution of the environment from the release of fuels from ships subject to the IGF Code
- The operational controls of fuel related to propulsion plant and engineering systems and services and safety devices on ships subject to the IGF Code
- Plan and monitor safe bunkering, stowage and securing of the fuel on board ships subject to the IGF Code
- Monitor and control compliance with legislative requirements
- Damage control and emergency response aboard ships subject to the IGF Code
- Bunker / Cargo Calculations

This Course is USCG and Marshall Island Approved and is STCW Compliant. The course certificate states it satisfies:

"Any applicant who has completed our *Combined Basic & Advanced IGF Code Operations (STRCTR-807)* course will satisfy:

- The training and standards of competence required by STCW Code section A-V/3 and Tables A-V/3-1 and A-V/3-2, as amended 2010 for original or renewal of STCW endorsements for Basic & Advanced IGF Code Operations.

Scope
This course is intended to meet the training and standard of competence requirements of regulation V/3 of the STCW Convention for masters, officers, ratings and other personnel subject to the IGF Code.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and/or STCW as amended. Each student should; have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", have an "Officer-in-Charge of an Engineering Watch", be in training leading to an "Officer-in-Charge" endorsement, or have an equivalent experiential background as well as be in good physical health and speak and understand English. Following training, students are required to complete experiential requirements (sea service and fuel transfers) to obtain STCW Advanced IGF Code Operations endorsement IAW USCG and STCW requirements.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

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Confined Space Entry and Rescue

Length 3 days

Objective
The objective of this course is to instruct the student in the areas relevant to Confined Space Entry and Rescue in the maritime environment. This will satisfy company, national and international regulations as stated in Standards of Training Certification and Watchkeeping. The course includes classroom and hands on training with written assessments and practical exercises and assessments

Upon completion, the student will have a knowledge, understanding and proficency in the following topical areas:

- Regulatory standards and guidelines for confined space entry, rescue and competent persons
- Risks and hazards associated with confined space entry and rescue
- Ability to conduct appropriate atmospheric testing of confined spaces for entry, rescue and work
- Ability to apply the appropriate controls (including atmospheric) within confined spaces for entry, rescue and work
- Use of proper PPE
- Safe working practices for confined spaces
- Ability to respond to an emergency requiring confined space rescue/escape

Scope
The course is intended to provide ships officers (deck and engine) with the necessary skills to manage and conduct confined space entry operations and confined space rescue operations onboard vessels and in the marine environment to ensure the student has sucessfully achieved the level of competency, knowledge, understanding and proficiency, specfied within the STCW and to meet the training requirements as directed in SOLAS chapter III reg. 19 and regulation XI-1/7.

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English and has at least 1 year of sea service within the last 5 years.

Please be prepared for class with the following:
For practical exercises: students must wear long pants, socks and closed-toe shoes. (No flip flops, sandals)
STAR will provide all necessary course materials

Teaching Facility
STAR Center, Dania Beach, Florida

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Crisis Management & Human Behavior (STRCTR-138)

Length 1 day

Scope
This course is intended to meet the Crisis Management & Human Behavior training requirements of Sections A-V/2 paragraph 3 of the STCW Code for Passenger Ships Other Than Ro-Ro Passenger Ships; AND the Passenger Safety, Cargo Safety and Hull Integrity training requirements of Sections A-V/2 paragraph 4 of the STCW Code for Ro-Ro Passenger Ships.

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Crisis Management and Human Behavior and Passenger Safety, Cargo Safety and Hull Integrity. The course will provide trainees with techniques and protocols for maximizing passenger and crew safety, preventing pollution and caring for material items, including the ship, in emergency conditions. Training will be generic and should be supplemented with shipboard training to ensure "ship unique" policies/procedures are trained. The course meets the criteria for satisfaction of training requirements enumerated in Standards of Training Certification and Watchkeeping Sections A-V/2 for competencies in Crisis Management and Human Behavior, including:

- Organizing shipboard emergency procedures
- Optimizing use of resources
- Controlling response to emergencies
- Controlling passengers and other personnel during emergency situations
- Establishing and maintaining effective communications

Passenger Safety, Cargo Safety and Hull Integrity training, including:

- Loading and embarkation procedures
- Carriage of dangerous goods
- Securing cargoes
- Stability, Trim and Stress
- Opening, closing and securing hull openings
- Ro-Ro deck atmosphere

This Course is USCG Approved & STCW Compliant. The certificate will state:

"Any applicant who has successfully completed our *Crisis Management* & *Human Behavior (STRCTR-138)* course will satisfy: The Crisis Management & Human Behavior training requirements of 46 CFR 11.1105(a)(1)(iii); AND Section A-V/2 paragraph 4 of the STCW Code, as amended 2010; AND, the standards of competence required by Table A-V/2-2 of the STCW Code, as Amended 2010."

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speak and understand English.

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STAR Center, Dania Beach, Florida



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Crowd Management (STRCTR-142)

Length 1 day

Objective

The course will provide trainees with techniques and protocols for managing movement of passengers under emergency conditions necessitating preparation to abandon ship. Training will be generic and should be supplemented with shipboard training to ensure "ship unique" policies/procedures are trained.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Crowd Management (STRCTR-142)* course will satisfy:

- The Crowd Management training requirements of 46 CFR 11.1105(a)(1)(i) and (ii) AND
- The Crowd Management training requirements of STCW Code Section A-V/2 paragraph 3, as amended 2010; AND
- The Safety training requirements of STCW Code Section A-V/2 paragraph 2, as amended 2010; AND
- The Crowd Management standards of competence required by STCW Code Section A-V/2 paragraph 3 and Table A-V/2-1, as amended 2010."

Scope

The Crowd Management course is designed for personnel serving on passenger ships engaged in international voyages. The course will equip trainees with the knowledge and skills to facilitate safe management/control of emergency scenarios. The course is designed for, "personnel designated on muster lists to assist passengers in emergency situations".

Entry standards

Seafarers serving on board passenger ships engaged in international voyages must complete Crowd Management training as laid out in Section A-V/3 of the STCW in accordance with their capacity, duties, and responsibilities prior to being assigned shipboard duties.

Teaching Facility

STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

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Fast Rescue Boat (STRCTR-193)

Length 3 days

Objective
This course covers the requirements of the STCW Convention Chapter VI, Section A-VI/2, Table A-VI/2-2. Upon meeting the minimum standard of competence in fast rescue boats a trainee will be competent to handle and take charge of such boats during or after launch in adverse weather and sea conditions. They will also be able to operate a fast rescue boat engine.

Trainees will know the correct use of all locating devices, including communication and signaling equipment between the rescue boat and a helicopter and the ship, and how to carry out search patterns.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Fast Rescue Boat (STRCTR-193)* course will satisfy the requirements of Table A-VI/2-2 of the STCW Code, Specification of the Minimum Standard of Competence in Fast Rescue Boats."

Scope
This course is a classroom and Fast Rescue Boat-based course that is designed to cover the mandatory minimum requirements for the issue of certificates of proficiency in fast rescue boats as specified in table A-VI/2-2 of the International Convention on Standards of Training, Certification and Watchkeeping (STCW) Code for Seafarers.

Entry standards
Student minimum prerequisites are:

- Be medically fit

Please be prepared for class with the following:

- Students are required to bring a swim suit in order to participate in the practical exercises.
- Sunscreen is available upon request.
- In the event of inclement weather, foul weather gear will be provided.
- **No** flip-flops or sandals are to be worn. Close-toed shoes (sneakers, deck shoes or water moccasins) **MUST** be worn.

Teaching Facility
STAR Center, Dania Beach, Florida





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Global Maritime Distress & Safety System (STRCTR-210)

Length 10 days (excludes weekends)

Objective
To provide the knowledge requirements to meet the specifications of Section A/IV-2 of the STCW 2010 Code, and the U.S. Model Course for GMDSS. Additionally, students will gain knowledge of:

- Maritime Mobile Service and FCC Regulations
- GMDSS Carriage Requirements
- Shipboard Power Systems
- Maintenance Requirements
- Publications and Documents
- Radio Wave Propagation
- Maritime Mobile Satellite Service
- Digital Selective Calling
- Station Logs
- Radiotelex (NBDP)
- NAVTEX
- Maritime Safety Information
- VHF Survival Craft Transceiver
- SART
- EPIRB
- Distress Procedures
- Urgency & Safety Procedures
- False Alert Prevention
- System Testing
- Medical Emergencies
- Traffic Lists
- Communications Accounting

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Global Maritime Distress* & *Safety System (GMDSS) (STRCTR-210)* course will satisfy:

- The GMDSS training requirements of 46 CFR 11.305(a)(3)((viii); 11.307 (a)(3)(viii); 11.309 (a)(4)(xv); 11.311 (a)(3)(ix); 11.313 (a)(3)(ix); 11.315 (a)(3)(vi); and 11.319 (a)(4)(ix); and 11.604; AND
- The GMDSS standards of competence required by STCW Code Section A-IV/2 and Table A-IV/2, as amended 2010."

Scope
This course is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Task/Desk Top Simulation

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

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Liquefied Gas Tanker (Membrane)
Cargo Operations Simulator (STRCTR-256)

Star offers, in addition to Membrane model simulation, a Spherical ship simulation and a Q-FLEX ship simulation model

Length 5 days

Objective

The Objective of this course is to provide the student with "hands on" practical experience in LNG cargo operations using exercises and practical assessments on the Cargo Operations Simulator. This course when taken as a sequel to a specialized training course for Liquefied Gas tankers is designed to meet the requirements of the International Convention on Standards of Training and Watchkeeping for Seafarers as amended, including paragraphs 22-34 of Section A-V/1 and Regulation I/12 and Code Section A-I/12.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Liquefied Gas Tanker (Membrane) Cargo Operations Simulator (STRCTR-256)* course, PROVIDED applicant has previously successfully completed a USCG approved Tank Ship or Tank Barge Liquefied Gases course will satisfy the requirements of: 46 CFR 13.120(a)(2) for renewal of Tankerman Person in Charge (PIC) Tank Ship Liquefied Gases Endorsement; OR 46 CFR 13.120(c)(2) for renewal of Tankerman PIC Liquefied Gases (Barge) Endorsement; OR CFR 13.120(d)(2) for renewal of Tankerman Engineer Liquefied Gases Endorsement; OR 46 CFR 13.120(b)(2) for renewal of Tankerman Assistant Liquefied Gases Endorsement; AND Receive credit for one commencement and one completion of loading, and one commencement and one completion of discharge which may be applied toward satisfying the service requirements of 46 CFR 13.203.

The course completion certificate issued upon successful completion of this course is valid for 5 years for one application which results in the issuance of an endorsement(s) and may not be used for future application transactions."

Scope

This is a simulator-based course consisting of a series of exercises founded on the cargo and ballast equipment located on an LNG carrier using the GTTT Membrane System. All the exercises are conducted using STAR Center's MPRI LNG cargo handling simulator. The exercises are initiated by allowing trainees to become familiar with the operation of the simulator and the layout of the cargo and ballast systems together with the instrumentation and controls. This process is undertaken while conducting some of the initial operations in preparing the vessel to load cargo from a gas free condition. The exercises continue with the simulation of normal procedures and operations associated with the cooling down of cargo tanks, loading and discharging, use of boil off gas as fuel, and gas freeing. Each exercise conducted using the simulator is be preceded by a detailed briefing session to ensure the students are aware of the scenario at the commencement of the exercise and followed by a debriefing session during which the actions and the decisions of the students should be analysed. Throughout all the exercises, if the simulator is used in individual mode, the student will assume the role of chief officer. If the simulator is used as a 'group' facility the students should assume roles defined by the instructor.

Simulators and Training Tools

Task/Desk Top Simulation

Entry Standards

Students must have completed STAR Center's 60-hour Tankship LG (D056) within 5 years in order to enroll in the LNG simulator training course.

Teaching Facility

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Marine Environmental Awareness (STRCTR-710)

Length 2 ½ days

Objective
Each student who successfully completes this course will be knowledgeable of operational awareness on the prevention of pollution on board the vessel and raise awareness of the cause and effects of marine pollution. The students will understand the history of Marpol 73/78 and the following:

- Identify the technical annexes of Marpol 73/78
- Become familiar with domestic laws and regulations relating to the marine environment
- Comprehend the criminal liability for the violation of law, both domestic and internationally
- Become aware of the required documentation and record keeping required for compliance
- Increase awareness of current marine environmental issues

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Marine Environmental Awareness (STRCTR-710)* course will satisfy: the following competencies, relative to marine environmental awareness only:

• The "Ensure compliance with pollution prevention requirements" competency of Table A-II/I, and Table A-III/I of the STCW Code, as amended 2010; AND

• The "Monitor compliance with legislative requirements and measures to ensure protection of the marine environment" competency of Table A-1I/2, and Table A-III/2 of the STCW Code, as amended 2010; AND

• The Marine Environmental Awareness standards of competence meeting the National Assessment Guidelines from NVIC 10-14(CH-2) Tasks 15.4.A through 15.4.G, 15.7.A and 15.8.A; NVIC 11-14(CH-2) Tasks 15.4.A through 15.4.G and 15.7.A; NVIC 12-14 (CH-2) Tasks 12.1.A, 12.2.A, 12.3.A, and 17.1.A; NVIC 17-14(CH-2) Task 15.1.A."

Scope
This course is intended to address environmental issues laid out in MARPOL 73/78 as they pertain to company and crew in the marine industry.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or "Officer in Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speak and understand English.

Please be prepared for class with the following:

- No extra class material required

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Maritime Security Awareness (STRCTR-561)

Length 1 day

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Security Awareness. Additionally, students will gain:

- Basic working knowledge of maritime security terms and definitions, including elements that may relate to piracy and armed robbery
- Basic knowledge of international maritime security policy and responsibilities of Governments, companies and persons
- Basic knowledge of maritime security levels and their impact on security measures and procedures aboard ship and in port facilities
- Basic knowledge of security reporting procedures
- Basic knowledge of security-related contingency plans
- Basic knowledge of techniques used to circumvent security measures
- Basic knowledge enabling recognition of potential security threats, including elements that may relate to piracy and armed robbery
- Basic knowledge enabling recognition of weapons, dangerous substances and devices and awareness of the damage they can cause
- Basic knowledge in handling security-related information and security-related communications
- Basic knowledge of training, drill and exercise requirements under relevant conventions, codes and IMO circulars, including those relevant for anti-piracy and anti-armed robbery

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Maritime Security Awareness (STRCTR-561)* course will satisfy:

- The Security Awareness requirements 46 CFR 12.627(a)(1); AND
- The Security Awareness standards of competence required by STCW Code Section A-VI/6 paragraph 4 and Table A-VI/6-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 21-14 (Ch-1)."

Scope
This is a classroom course that is intended to meet the Maritime Security Awareness training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

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Proficiency in Survival Craft (STRCTR-372)

Length 4 days

Objective
The objective of this course is to instruct the student in the areas relevant to Proficiency in Survival Craft and Rescue Boats Other Than Fast Rescue Boats, and in doing so satisfy company, national, and international regulations and assessment guidelines as stated in STCW table A-VI/2-1.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Proficiency in Survival Craft (STRCTR-372)* course will satisfy the competency requirements of Table A-VI/2-1 of the STCW Code, as amended 2010, for Proficiency in Survival Craft and Rescue Boats Other Than Fast Rescue Boats (PSC) and will satisfy the professional examination and practical demonstration requirements of 46 CFR 12.407(b)(3) for endorsements for Lifeboatman and PSC."

Scope
This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
Student minimum prerequisites are:

1. At least 18 years old;
2. Competent in speaking and understanding the English language;
3. Produces satisfactory evidence of having successfully completed an approved Basic Safety Training course including personal survival techniques within the past five years;
4. Produces satisfactory evidence of having a minimum of 6 months sea service aboard ocean and/or coastwise vessels; and,
5. Be medically fit

Teaching Facility
STAR Center, Dania Beach, Florida



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Proficiency in Survival Craft Refresher (STRCTR-749)

Length 1 day

Objective
The objective of this course is to instruct/refresh the student in the areas relevant to Proficiency in Survival Craft and Rescue Boats Other Than Fast Rescue Boats. In doing so, satisfy company, national and international regulations as stated in Standards of Training Certification and Watchkeeping (1995) table A-VI/2-1. The students will gain an understanding and proficiency with the following:

- Lifeboat engines and accessories
- Drills in boat handling and the use of oars
- Practical launching and recovering the lifeboat

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant, who has successfully completed our *Proficiency in Survival Craft Refresher (STRCTR-749)* course will satisfy:

- The Proficiency in Survival Craft and Rescue Boats Other Than Fast Rescue Boats (PSC) continued standards of competence required by 46 CFR 12.613(b)(4) and the Proficiency in Survival Craft and Rescue Boats Other Than Fast Rescue Boats-Limited (PSC-Limited) continued standards of competence required by 46 CFR 12.615(b)(4) for mariners who have previously held a PSC/PSC-Limited endorsement under STCW Code Section A-VI/2 but cannot meet the requirement for 1 year of sea service in last 5 years; STCW Code Section A-VI/2 and Table A-VI/2-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 01-24; AND
- PROVIDED this training was completed within one year of the date of application,
    - The practical demonstration requirements of 46 CFR 12.407(b)(3) for endorsement as Lifeboat Operator or 46 CFR 12.409(b)(3) for endorsement as Lifeboat Operator-Limited; AND
    - The refresher training course requirement of 46 CFR 10.227(e)(1)(iii) for renewal of an endorsement as Lifeboat Operator or Lifeboat Operator-Limited for mariners who cannot meet the requirement for 1 year of sea service in last 5 years.

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification.

The sea service requirements of 46 CFR 12.407 (b)(2) and 12.409(b)(2), and the written examination requirements of 46 CFR 12.407(b)(3) and 12.409(b)(3) for original endorsement as Lifeboat Operator or Lifeboat Operator-Limited must be met and are not part of this approval."

Scope
This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have successfully completed the approved Basic Training or Basic Training Refresher class as specified in 46 CFR 12.613(a)(3) within the past 5 years, be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida
Practical exercises are conducted at the STAR Center Waterfront Facility

- Full size Totally Enclosed Lifeboat and davit system
- Open Lifeboat for rowing
- U.S.C.G./SOLAS Approved lifeboats and equipment

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Safety Officer Seminar

Length 2 days

Scope
This course aims to provide knowledge and guidance to those who may be designated to perform the duties and responsibilities of a Ship's Safety Officer. This course is built in accordance with the training requirements for mariners in ISM and training for Safety Officers required by ILO, vetting and inspection organizations. This course covers topics suggested by ABS and IMO Model course 3.11, Marine Accident and Incident Investigation.

Objective
Prepare ships officers to assume the duties of Ship Safety Officer. At the end of the course the student will have knowledge of Regulations, Safety Officer Role, Safety Committee, Safety Inspections, Work Permit System, Risk Assessment, Accident Investigation, Accident Reporting and Tracking, Human Factors, Safety Training, AND Drills and Leadership.

Entry standards
This course will prepare candidates for certification as shipboard Safety Officers.

Teaching Facility
STAR Center, Dania Beach, Florida

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Simulator Instructor Training (STRCTR-463)

Length 5 days

Objective
The objectives of this course are:

- Simulator lab characteristics
- The simulator training process
- Developing a simulator-based exercise
- Discuss instructor attributes and conduct
- Discuss the different simulators and their limitations
- Discuss use of a simulator for assessment
- Develop and present a simulation exercise
  - Deck students will train in the:
    - Full mission simulator
    - Radar and ECDIS labs
  - Engine students will train in the:
    - Steam,
    - Diesel or
    - Gas turbine computer lab

This Course is USCG Approved and STCW Compliant. The course certificate will state:
"Any applicant who has successfully completed our *Simulator Instructor Training (STRCTR-463)* course will satisfy the simulator instructor training requirements of Section A-I/6, Paragraph 4.3.1 of the STCW Code, as amended."

Scope
The purpose of this course is to familiarize subject matter experts and experienced trainers in the use of simulators to bring about experiential learning. The students will use the simulators that they will be instructing with. The course focuses on the following:

- the application of simulators in training
- instructional techniques involving the use of simulators
- conducting assessment involving the use of simulators

For persons conducting training using a simulator, this course is designed to supplement the instructor, supervisor and assessor qualification as required by the International Maritime Organization (STCW Section A-1-6 and Regulation I/6 Training and Assessment) and the U.S. Coast Guard (NVIC 6-97 Policy on Qualified Instructors and Designated Examiners Who Train or Assess the Competence of Merchant Mariners).

Entry standards
Those participating in this course shall have successfully met the Instructor, Supervisor and Assessor qualifications as required by IMO and/or relevant Maritime Administration. Those participating in this course should also be qualified within the disciplines they are to teach and/or assess. The course is given in the English language.



Simulators and Training Tools
Full Mission Simulator

Teaching Facility
STAR Center, Dania Beach, Florida

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Tank Ship Dangerous Liquids (STRCTR-501)

Length 5 days

Objective

Successful completion of this course will provide the seafarer with an advanced understanding of the operations of tank vessels including the international and federal regulations under which they operate. Special attention is given to the prevention of air and water pollution and to the development of a safety culture. Specifically, this course covers the training of tankermen in the characteristics, arrangements, operations, and systems of tank ships, the regulatory environment under which they operate, and measures to prevent or mitigate pollution of the air and sea as required by 46 CFR Part 13 and the STCW Code, Section A-V/1. Upon completion of this course and meeting the relevant experience requirements the student should qualify for USCG endorsement as Tankerman – PIC and be knowledgeable and proficient in the following areas: (1) The handling, care, and custody of dangerous liquid cargoes in bulk. (2) An appreciation of the different cargo handling systems on modern tankers. (3) An understanding of the various auxiliary and support systems on modern tankers. (4) The international and federal regulatory environment. (5) The safety cultures of both the shipping and petroleum industries. Individuals will be required to demonstrate competence in accordance with the methods and criteria for evaluating competence as set forth by the USCG and in accordance with the STCW Code.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed *Tank Ship Dangerous Liquids Course (STRCTR-501)* and applies for endorsement within five years of completion:

- Satisfies the cargo course requirements of 46 CFR 13.201(c)(4) for original issuance OR 13.120(a)(2) for renewal of Tankerman- PIC (DL); AND
- Satisfies the cargo course requirements of 46 CFR 13.301(c)(4) for original issuance OR 13.120(c)(2) for renewal of Tankerman- PIC (Barge)(DL); AND
- Satisfies the cargo course requirements of 46 CFR 13.401(e)(1) for original issuance OR 13.120(b)(2) for renewal of Tankerman-Assistant (DL): AND
- Satisfies the cargo course requirements of 46 CFR 13.501(c)(4) for original issuance OR 13.120(d)(2) for renewal of Tankerman-Engineer (DL): AND
- Meets the standards of competence, required by 46 CFR 13.609(a)(2), of Section A-V/1, Table A-V/1-1-1 of the STCW Code for Basic Oil AND Chemical Tanker Cargo Operations; AND
- Provided the applicant also supplies a statement signed by the Master, Chief Engineer or Chief Mate of an Oil AND/OR Chemical Taker, appropriate to the endorsement sought, that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfer of dangerous liquid cargo in accordance with the guidance found in Navigational Vessel Inspection Circular 22-14 (Encl 1, paragraphs 4 or 5): Meets the standards of competence, required by 46 CFR 13.603(a)(2), (b)(2) or (c)(2) AND/OR 13.605(a)(2), (b)(2) or (c)(2), of Section A-V/1, table A-V/1-1-2 OR A-V/1-1-3 of the STCW Code for Advanced Oil AND/OR Chemical Tanker Cargo Operations."

Scope

In accordance with the Seafarers' Training and Certification of Watchkeepers (STCW) Code as amended, seafarers employed or engaged on tankships and whose duties are cargo related must have either basic or advanced training in tanker operations. In addition, the U.S. Coast Guard requires the attendance at and passing of an approved course as part of the qualifications for endorsement as "Tankerman Assistant", "Tankerman-PIC" or "Tankerman Engineer". This course is intended to meet these requirements.

Entry standards

The course is open to students who have a need for such training as required by the USCG / STCW. Students should be licensed at least at the level of third mate / third assistant engineer or have an equivalent educational and experiential background.



Teaching Facility

STAR Center, Dania Beach, Florida.
*May also be offered as an online course, please contact Student Services for more information.

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Tank Ship Dangerous Liquids (Simulator) (STRCTR-503)

Length 10 days (excludes weekends)

Objective

Successful completion of this course will provide the seafarer with an advanced understanding of the operations of tank vessels including the international and federal regulations under which they operate. Special attention is given to the prevention of air and water pollution and to the development of a safety culture. Specifically, this course covers the training of Tankerman in the characteristics, arrangements, operations and systems of tank ships, the regulatory environment under which they operate, and measures to prevent or mitigate pollution of the air and sea. Upon completion of this course and meeting the relevant experience requirements, the student should qualify for USCG endorsement as Tankerman – PIC and be knowledgeable and proficient in the following areas:

1. The handling, care, and custody of dangerous liquid cargoes in bulk.
2. An appreciation of the different cargo handling systems on modern tankers.
3. An understanding of the various auxiliary and support systems on modern tankers.
4. The international and federal regulatory environment.
5. The safety cultures of both the shipping and petroleum industries.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed *Tank Ship Dangerous Liquids Course (STRCTR-503)* and applies for endorsement within five years of completion satisfy the course requirements of :

- 46 CFR 13.201(c) (4) for original issuance OR 13.120(a)(2) for renewal of Tankerman- PIC (DL); AND
- 46 CFR 13.301(c)(4) for original issuance OR 13.120(c)(2) for renewal of Tankerman- PIC (Barge); AND
- 46 CFR 13.401(e)(1) for original issuance OR 13.120(b)(2) for renewal of Tankerman-Assistant (DL): AND
- 46 CFR 13.501(c)4) for original issuance OR 13.120(d)(2) for renewal of Tankerman-Engineer (DL): AND the standards of competence required by:
- 46 CFR 13.609(a)(2); STCW Code Section A-V/1 and Table A-V/1-1-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 22-14(Ch-2) for Basic Oil and Chemical Tanker Cargo Operations; AND
- 46 CFR 13.603(a)(2) and (b)(2); STCW Code Section A-V/1 and Table A-V/1-1-2 for Advanced Oil Tanker Cargo Operations AND/OR 46 CFR 13.605(a)(2) and (b)(2), STCW Code Section A-V/1 and Table AV/1-1-3 for Advanced Chemical Tanker Cargo Operations, PROVIDED the applicant also supplies a statement signed by the Master or Chief Mate of an Oil AND/OR Chemical Tanker, appropriate to the endorsement sought, that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising the transfer and operations of dangerous liquid cargo in accordance with the guidance found in Navigation Vessel Inspection Circular 22-14(Ch-2) (Encl 1, paragraphs 4 or 5); AND
- 46 CFR 13.603(c)(2); STCW Code Section A-V/1 and Table A-V/1-1-2 for Advanced Oil Tanker Cargo Operations limited to maintenance and repair of cargo equipment AND/OR 46 CFR 13.605(c)(2); STCW Code Section A-V/1 and Table A-V/1-1-3 for Advanced Chemical Tanker Cargo Operations limited to maintenance and repair of cargo equipment, PROVIDED the applicant also supplies a statement signed by the Master or Chief Engineer of an Oil AND/OR Chemical Tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of fuel oil in accordance with the guidance found in Navigation Vessel Inspection Circular 22-14(Ch-2) (Encl 1,paragraphs 4 or 5).

This course will satisfy the following requirements toward an endorsement as Tankerman PIC (DL) or Tanker-PIC (Barge) DL) as provided 46 CFR 13.121(b): 2 loadings, 2 discharges, 1 commencement of loading and 1 completion of loading, 1 commence of discharge and one completion of discharge. A course certificate used for original issuance or renewal of endorsement cannot be used for a subsequent renewal of the same endorsement.

Scope

This is a simulator course that is intended to meet the Tank Ship Dangerous Liquids (Simulator) (STRCTR-S03) requirements.



Simulators and Training Tools

Task/Desk Top Simulation

Entry standards

The course is open to students who have a need for such training as required by the USCG / STCW. Students should be licensed at least at the level of third mate/ third assistant engineer or have an equivalent educational and experiential background.

Teaching Facility

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Tank Ship Familiarization (Dangerous Liquids) (STRCTR-505)

Length 4 days

Objective
Successful completion of this course should enable trainees to serve on oil tankers in a capacity other than master, chief engineer officer, chief mate or second engineer officer, and to perform specific duties and responsibilities related to those duties in connection with cargo and cargo equipment, provided that they are not immediately responsible for the loading, discharging, care in transit handling of cargo.

Individuals will be required to demonstrate competence in accordance with the methods and criteria for evaluating competence as set forth by the U.S. Coast Guard and in accordance with the STCW Code.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Tank Ship Familiarization Dangerous Liquids Course (STRCTR-505)* course within 5 years of the date of submitting a complete application will satisfy:

- The course requirements of 46 CFR 13.401(e)(1) for original issuance OR 13.120(b)(2) for renewal of Tank Vessel Assistant (DL); AND
- The standards of competence required by 46 CFR 13.609(a)(2); STCW Code Section A-V/1 and Table A-V/1-1-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 22-14(Ch-2) for Basic Oil and Chemical Tanker Cargo Operations; AND

A course certificate used for original issuance or renewal of an endorsement cannot be used for a subsequent renewal of the same endorsement.

Scope
The course will provide students with the detailed knowledge to support the training outcomes related to Cargo Handling and Stowage for chemical tankers and in doing so, satisfy company, national, and international regulations for candidates for certification for chemical tankers.

This course is intended to meet the Tank Ship Familiarization Dangerous Liquids (STRCTR-505) requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to experienced seafarers who have not necessarily served on board an oil tanker as part of the regular complement, but who have completed an appropriate approved firefighting course and an approved first aid course.

Teaching Facility
STAR Center, Dania Beach, Florida

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Tank Ship Liquefied Gases (STRCTR-508)

Length 8 days (excludes weekends)

Objective
Provided they hold an appropriate certificate and are otherwise qualified in accordance with regulation V/1-2.2 of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers 1978, as amended 1995, those successfully completing the course should be able to take immediate responsibility for loading, discharging and care in transit or handling of cargo on liquefied gas tankers.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Tank Ship Liquefied Gases (STRCTR- 508)* course and applies for endorsement within five (5) years of completion will satisfy: The cargo course requirements of 46 CFR 13.201(c)(4) for original issuance OR 13.120(a)(2) for renewal of Tankerman-PIC (LG); AND The cargo course requirements of 46 CFR 13.301(c)(4) for original issuance OR 13.120(c)(2) for renewal of Tankerman-PIC (Barge) (LG); AND The cargo course requirements of 46 CFR 13.401(e)(1) for original issuance OR 13.120(b)(2) for renewal of Tankerman-Assistant (LG); AND The cargo course requirements of 46 CFR 13.501(c)(4) for original issuance OR 13.120(d)(2) for renewal of Tankerman-Engineer (LG); AND Meets the standards of competence, required by 46 CFR 13.611(a)(2), of STCW Code Section A-V/1, Table A-V/1-2-1 for Basic Liquefied Gas Tanker Cargo Operations; AND Provided the applicant also supplies a statement signed by the Master or Chief Mate of a Liquefied Gas Tanker, appropriate to the endorsement sought (Tankship, Tank Barge), that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of liquefied gas cargos in accordance with the guidance found in NVIC 22-14(Ch-1) (Encl. 1, paragraph 6): Meets the standards of competence, required by 46 CFR 13.607(a)(2) or (b)(2), of STCW Code Section A-V/1, Table A-V/1-2-2 for Advanced Liquefied Gas Tanker Cargo Operations; OR Provided the applicant also supplies a statement signed by the Master or Chief Engineer of a Liquefied Gas Tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising loadings and transfers of liquefied gas fuel in accordance with the guidance found in NVIC 22-14(Ch-2) (Encl. 1, paragraph 6): Meets the standards of competence, required by 46 CFR 13.607(c)(2), of STCW Code Section A-V/1, Table A-V/1-2-2 for Advanced Liquefied Gas Tanker Cargo Operations for an endorsement limited to maintenance and repair of cargo equipment. The course completion certificate issued upon successful completion of this course is valid for one application which results in the issuance of an endorsement(s) and may not be used for future application transactions."

This course is also approved by ABS Consulting as meeting all the requirements for the Society of International Gas Tanker & Terminal Operators Ltd. (SIGTTO), LNG Shipping Suggested Standards – Guidance and Best practices for the LNG Industry in the 21st Century. This program is certified by ABS Consulting as meeting the LNG Shipping Suggested Competency Standards for all Officer Ratings.

Scope
This specialized classroom course is designed to teach ship's officers, tanker terminal personnel, and management staff the advanced principles involved in the safe loading, transportation, and discharging of liquefied gases.

Entry standards
This course is open to seafarers who have completed an approved shore-based fire-fighting training course and retain a basic knowledge and understanding of tank ships as would be required and expected of a licensed officer. Students should hold a USCG or equivalent deck or engine license. It is recommended that students have completed advanced dangerous liquid tanker training prior to the commencement of this course.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

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Train-The-Trainer (STRCTR-597)

Length 5 days (After hours homework required)

Objective
To provide students with the subject matter requirements of U. S. Coast Guard Navigation and Vessel Inspection Circular No. 6-97 including the following areas:

- Identification of training needs; learning processes; course design; teaching methods;
- Recognition of individual capacity; identification of performance standards;
- Presentation techniques and use of media; measurement of progress towards training objectives and of adequate performance; favorable and unfavorable conditions for learning;
- The role of incentive and motivation in learning; the use of feedback for performance improvement; and course evaluation.

Trainees successfully completing this course should be capable of undertaking the responsibilities expected of instructors and/or assessors within their field of expertise. They will be aware of the training requirements and provisions of STCW as amended. They will also be familiar with the concepts taken into account when formulating a training program and be able to:

- Choose a particular training requirement
- Write a terminal performance objective
- Develop the lesson plan
- Successfully present the lesson
- Create an assessment plan designed to assess that competency
- STCW Code A-I/6;
- Training and Assessment
- STCW Code A-I/6;
- Guidance regarding Training and Assessment

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Train the Trainer (STRCTR-597)* course will satisfy:

- The training in effective instructional techniques and assessment techniques requirements of 46 CFR 10.402(b)(2)(iii)(A), 10.405(a)(1), and 10.405(d); AND
- The training in effective instructional techniques and assessment techniques requirements of STCW Code Section A-I/6, as amended 2010, meeting the National Assessment Guidelines from NVIC 03-14(Ch-1) Enclosure (2) for Qualified Instructors; AND
- The training in assessment techniques requirements of STCW Code Section A-I/6, as amended 2010, meeting the National Assessment Guidelines from NVIC 19-14(Ch-3) for Qualified Assessors.

Scope
This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry Standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be qualified within the areas they are to teach and/or assess, be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

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Vessel & Company Security Officer (STRCTR-572)

Length 3 days

Objective
The objective of this course is to educate ships' supervisory security personnel as well as department management, supervisory, and staff personnel by providing all concerned with knowledge, understanding, and appreciation of complementary maritime physical security responsibilities. Those who successfully complete this course should be able to undertake the duties and responsibilities of VSO or CSO as defined in Sections A/11.2 and A/12.2 of the ISPS Code and 33 CFR part 101-104.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Vessel & Company Security Officer (STRCTR-572)* course will satisfy: The requirements of 46 CFR 11.337(a) for an STCW endorsement as Vessel Security Officer: AND The Vessel Security Officer standards of competence required by STCW Code Section A-VI/5 and Table A-VI/5, as amended 2010, meeting the National Assessment Guidelines from NVIC 21-14(Ch-1). This course meets the standard of competence for Company Security Officer provided in 33 CFR 104.210.

Scope
This course is intended to meet the requirements as listed above in the Approved Course Certificate section.

Entry standards
Proper maritime security creates a condition that establishes and maintains certain protective measures. This course covers "Ship Security Sensitive Information". Accordingly, students should have prospect of or have a contract to be employed on board ship on the business of that ship as part of the ship's complement with designated supervisory security duties. A photocopy of the assignment document and proper identification must accompany students. Students must be at least 18 years old.

In addition:

For CSO—It is assumed that those attending this course will be persons employed (or to be employed) by a company and that they are likely to be designated as CSO. However, no specific entry requirements are anticipated.

For SSO—It is assumed that those attending this course will be serving seafarers (or other shipboard personnel), and that they are likely to be designated as VSO. However, no specific entry requirements are anticipated.

Teaching Facility
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*May also be offered as an online course. Please contact Student Services for more information.

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Vessel Personnel with Designated Security Duties (STRCTR-747)

Length 2 days

Objective
This course is intended to provide the knowledge required for personnel who are assigned responsibilities of a Vessel Personnel with Designated Security Duties (VPDSD) to perform their duties in accordance with the requirements of the Maritime Transportation Security Act of 2002, Chapter XI-2 of SOLAS 74 as amended, the IMO ISPS Code, and the US Coast Guard regulations contained in 33 CFR Chapter 1 Subchapter H. The course aim is also to meet the mandatory minimum requirements for knowledge, understanding and proficiency in Table A-VI/5 of the STCW Code and the mandatory raining requirements in 33 CFR Part 104. This course was designed using IMO Model Course 3.26 Security Training for Seafarers with Designated Security Duties (2012 edition).

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Vessel Personnel with Designated Security Duties (VPDSD) (STRCTR-747)* course will satisfy:

- The VPDSD training requirements of 46 CFR 12.625(a)(1); AND
- The VPDSD standards of competence required by STCW Code Section A-VI/6 paragraph 6 and Table A-VI/6-2, as amended 2010, meeting the National Assessment Guidelines from NVIC 21-14."

Scope
This course is intended to meet the requirements as listed above in the Approved Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be available as an online course. Please contact Student Services for more information.

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Combined Basic & Advanced IGF Code Operations (STRCTR-1015) (Simulator)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in basic and advanced IGF Code LG fueled vessel operations. The use of GTT Desktop Simulation will give the capability to simulate and conduct training in all the various aspects that need to be considered when conducting bunkering operations with LNG in all the various scenarios and storage systems. Additionally, students will gain knowledge and understanding of:

- The physical and chemical properties of fuels aboard ships subject to the IGF Code
- The ability to safely perform and monitor all operations related to the fuels used on board ships subject to the IGF Code
- The precautions to prevent hazards
- Risk analysis for the fuels used on board ships subject to the IGF Code
- Occupational health and safety precautions and measures on board ships subject to the IGF Code
- The knowledge of the prevention, control and firefighting and extinguishing systems on board ships subject to the IGF Code
- The precautions to prevent pollution of the environment from the release of fuels from ships subject to the IGF Code
- The operational controls of fuel related to propulsion plant and engineering systems and services and safety devices on ships subject to the IGF Code
- Plan and monitor safe bunkering, stowage and securing of the fuel on board ships subject to the IGF Code
- Monitor and control compliance with legislative requirements
- Damage control and emergency response aboard ships subject to the IGF Code
- Bunker / Cargo Calculations
- Actions to be taken during cargo operations with the use of a GTT Liquid Gas Handling Simulator (LGHS)

This Course is USCG and Marshall Island Approved and is STCW Compliant. The course certificate states it satisfies:

"Any applicant who has completed our *Combined Basic & Advanced IGF Code Operations (Simulator) (STRCTR-1015)* course will satisfy: the training and standards of competence required by STCW Code Section A-V/3 and Tables A-V/3-1 and A-V/3-2, as amended 2010, for original or renewal of STCW endorsements for Basic and Advanced IGF Code Operations; AND This course will partially satisfy the Fuel Transfer requirements contained in CG-MMC Policy Letter 01-21, Enclosure (2) Paragraph (2)(b)(2)(B) and Enclosure (2) Paragraph (5) giving credit for 2 Fuel Transfers. This course does not satisfy any requirements for sea service."

Scope
This course is intended to meet the training and standard of competence requirements of regulation V/3 of the STCW Convention for masters, officers, ratings and other personnel subject to the IGF Code.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and/or STCW as amended. Each student should; have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", have an "Officer-in-Charge of an Engineering Watch", be in training leading to an "Officer-in-Charge" endorsement, or have an equivalent experiential background as well as be in good physical health and speak and understand English. Following training, students are required to complete experiential requirements (sea service and fuel transfers) to obtain STCW Advanced IGF Code Operations endorsement IAW USCG and STCW requirements.

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II. MEDICAL COURSES

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Alcohol Screening Test Technician (QEDs)

Length ½-day

Objective
This course is intended to ensure students who successfully complete this course will be knowledgeable and proficient in STT (Screening Test Technician Training) that will include:

- Information on 46 CFR Part 4, 5 & 16
- Information on 33 CFR Part 95.045
- Proficiency Demonstration – Mock collection using swab (QED)

The course completion certificate will state:

"Alcohol Screening Test Technician (STT) and Alcohol Screening Device (ASD) Proficiency Course" The four (4) hour Training Seminar and Completed Proficiency Demonstrations is in compliance with the training requirements contained in ASD Model: QED A-150. This certificate expires five (5) years from the course end date shown below."

Scope
This is a classroom course that is comprised of lectures and practical proficiencies with a written assessment.

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard. Each student should be in good physical health and speak and understand English.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

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Alcohol Screening Test Technician Alcomate 7000 Premium

Length ½-day

Objective

This course is intended to ensure students who successfully complete this course will be knowledgeable and proficient in STT (Screening Test Technician Training) that will include:

- Information on 46 CFR Part 4, 5 & 16
- Information on 33 CFR Part 95.045
- Proficiency Demonstration – Mock collection using Alcomate 7000 Premium Tools

The course completion certificate will state:

"Alcohol Screening Test Technician (STT) and Alcohol Screening Device (ASD) Proficiency Course" The four (4) hour Training Seminar and Completed Proficiency Demonstrations is in compliance with the training requirements contained in Alcomate 7000 Premium. This certificate expires five (5) years from the course end date shown below.

Scope

This is a classroom course that is comprised of lectures and practical proficiencies.

Entry standards/Prerequisites

This course is open to students who have a need for such training as required by the United States Coast Guard. Each student should be in good physical health and speak and understand English.

Please be prepared for class with the following:

STAR will provide all necessary course materials.

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Automatic External Defibrillator and CPR

Length ½ day

Scope
This course satisfies the recommendation of the Automated External Defibrillator manufacturers and the requirement to retrain in Cardiopulmonary Resuscitation (CPR) every two years. The course is not a substitute for the basic safety training course in elementary first aid. The student will receive a course card from the American Heart Association or equivalent agency such as the American Red Cross or National Safety Council.

Objective
Successful completion of this course will prepare any mariner in providing immediate CPR and use of the Automated External Defibrillator at the scene of an accident or other medical emergency until the arrival of a person with advanced first aid skills or the person in charge of the medical care on board.

Entry standards
This course is open to all seafarers who are to serve or serving on board sea-going merchant ships. Students should have a prospect of or have a contract to be employed on board ship on the business of that ship as part of the ship's complement with designated safety or pollution prevention duties. Students must be at least 18 years old and meet the physical fitness requirements stated in 46 CFR 10.205.

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Drug Testing - Urine Collector Proficiency Instructor

Length 1 day

Objective
The course is designed to meet the collector training requirements and instructor training requirements as outlined in 49 CFR 40 including knowledge of basic information, qualification training, and proficiency demonstrations.

Scope
This course is designed to train the mariner in urine drug collection process. The course meets the requirements set forth in 49 CFR Part 40 and USCG Modal Rules and other Modal agencies.

The course completion certificate will state:
"A 6-hour Drug Test Collector (Urine) Training Course that meets DOT's Basic Knowledge Requirements, Qualification Training and hands-on Proficiency Demonstrations and is in compliance with the training requirements contained in U.S. Coast Guard Regulations 49 CFR Part 40. This certificate expires 5 years from the course and date shown below."

Entry standards
Individuals that are on board ship with designated management or supervisor capacity in the area of urine collection for drug sampling in compliance with 49 CFR part 40 and have completed the collector course.

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First Aid & CPR (STRCTR-197)

Length 1 day

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Elementary First Aid-CPR and meet the requirements for the following areas:

1. Elementary First Aid-CPR requirements as set out in Table A-VI/1-3 of the STCW Code:
    - Take immediate action upon encountering an accident or other medical emergency
    - Assessment of needs of casualties and threats to own safety
    - Appreciation of body structure and functions
    - Understanding of immediate measures to be taken in cases of emergency, including the ability to:
        1. position casualty
        2. apply resuscitation techniques
        3. control bleeding
        4. apply appropriate measures of basic shock management
        5. apply appropriate measures in event of burns and scalds, including accidents caused by electric current
        6. rescue and transport a casualty
        7. improvise bandages and use materials in the emergency kit

This Course is USCG Approved and STCW Compliant. The certificate will state:

"Any applicant who has successfully completed our *First Aid & CPR (STRCTR-197)* course will satisfy the following requirements:

- Elementary First Aid per STCW Code Table A-VI/1-3.
- Elementary First Aid per 46 CFR 11.302(a)(3) and 46 CFR 12.602(a)(3); and the first aid and CPR training requirements of 46 CFR 11.201(i)(1)."

Scope

This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards

This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an Officer-in-Charge of an Engineering Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Teaching Facility

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Heat Stress Afloat

Length ½ day

Scope
Identify the chain of command's responsibilities regarding the monitoring and control of shipboard heat stress, specific heat stress conditions, symptoms and preventive measures, and list the steps to properly operate the Web Bulb Globe Thermometer (WBGT), the 960 Heat Stress Monitor, and the Psychrometer.

Objective
Upon completion of the course the student will be able to:

- IDENTIFY personnel and their responsibilities for the heat stress program afloat.
- IDENTIFY the climactic and physiology factors of heat stress afloat.
- Describe the application, monitoring, causes, and location of heat stress afloat.

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Medical Care Person In Charge (STRCTR-307)

Length 5 days (After hours homework required)

Objective
Successful completion of the course will prepare the crew member to provide coordinated medical assistance for the crew members that are sick or injured while they remain on board. The goal of this training is to provide education and practicum for the student to meet the STCW Code competencies as a Medical Person-in-Charge. Upon completion the student will be able to:

1. Recognize life-threatening medical emergencies.
2. Recognize common medical problems.
3. Communicate with a medical doctor and follow medical orders as communicated.
4. Communicate effectiveness of shipboard treatments via radio communication.
5. Perform reassessment and evaluate care and then record findings on the medical record.
6. Understand the importance of infection control and prevention of transmission of communicable disease.
7. Keep accurate and detailed records of the inventory in the ship's hospital.
8. Document and plan care for the sick and injured while they remain on board.
9. Provide a knowledge base to coordinate activities for evacuation when medically necessary.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Medical Care Person in Charge (STRCTR-307)* and presenting our Certificate of Training will, provided they have completed a USCG approved Medical Care Provider course within 6 months prior to completion of this course, satisfy the following:

- The Person in Charge of Medical Care training and standards of competence required by 46 CFR 12.621 for an STCW endorsement as Person in Charge of Medical Care; STCW Code Section A-VI/4 and Table A-VI/4-2, as amended 2010, meeting the National Assessment Guidelines from NVIC 02-04; AND
- The Management of Medical Care training requirements of 46 CFR 11.305(a)(3)(ix), 11.307(a)(3)(ix), 11.311(a)(3)(vi), 11.313(a)(3)(vi), and 11.315(a)(3)(ii); AND
- The Management of Medical Care standards of competence required by 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311(a)(2), 11.313(a)(2) and 11.315(a)(2); STCW Code A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 10-14(Ch-4), 11-14(Ch-4) and 03-18(Ch-2) Tasks 19.1, 19.2, and 19.3.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
To train the specified crew member(s) to provide medical assistance to the sick and/or injured while the patient remains on board. This level of training will prepare the crew member to take charge of medical care and learn how to assess and record signs and symptoms, coordinate treatment with Radio Medical Advice, and stabilize the wounded until medical care can be safely obtained. The advanced training candidate will learn a system to collect data, assess the patient, and communicate with a doctor ashore. The course will prepare the student to recognize specific problems and diseases and plan for care that will be provided in the ship's hospital. The course will reinforce knowledge gained in prior medical courses and introduce new competencies. The student will also be prepared with the aid of Radio Medical Advice to care for the female patient, death at sea, and communicable diseases. The specified crew member will be able to take appropriate action to provide care for injuries or sudden illnesses until more advanced medical care can be provided. The course will prepare the trainee in prevention of disease and improved health of crew members.

Entry standards
Must meet the STCW Code standards for deck officer licensing requirements at the management level.

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Medical Care Provider (STRCTR-310)

Length 3 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient to provide quality medical assistance and emergency care until the arrival of the medical officer who is in charge of medical care. Successful completion of this course will provide the participant with the knowledge and skills to: Recognize medical emergencies, systematically assess the patient, and respond with appropriate treatment.

- Intervene in life threatening situations.
- Stabilize the critically ill patient for transport.
- Prepare the patient for advanced medic treatment.
- Exchange medical information.
- Aid in the prevention and transmission of disease.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Medical Care Provider (STRCTR-310)* course will satisfy the following:

- The Medical First-Aid Provider training and standards of competence required by 46 CFR 12.619 for an STCW endorsement as Medical First-Aid Provider; STCW Code Section A-VI/4 and Table A-VI/4-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 05-04; AND
- The Medical First – Aid Provider training requirements of 46 CFR 11.309(a)(4)(i), 11.317(a)(3)(i),11.319(a)(4)(i),11.321 (a)(3)(i),11.329(a)(4)(i), and 11.335(a)(3)(i); AND
- The Medical First-Aid standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code A-II/1 and Table A-II/1, as amended 2010, meeting the National Guidelines from NVICs 12-14(Ch-4) and 02-18(Ch-2) Task 16.1; AND
- The Medical First-Aid standards of competence required by 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 13-14(Ch-3) Task 11.1.A; AND
- The Medical First-Aid standards of competence required by 46 CFR 11.329(a)(3); STCW Code A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-4) Task 14.1; AND
- The Medical First-Aid standards of competence required by 46 CFR 11.335(a)(2); STCW Code A-III/6 and Table A-III/6, as amended 2010, meeting the National Assessment Guidelines from NVIC 23-14(Ch-2) Task 16.1.A.

Applicants who have successfully completed this course, need not present completed "Task Control Sheets" for these assessments in application to STCW certification."

Scope
To train and prepare designated ship's personnel in recognizing the need to provide medical assistance and emergency care as well as exchange medical information with a medical provider via radio or satellite communication. This course is intended for officers and other specified crew members to provide immediate medical care on board ship until the patient can be stabilized and safely transported to a medical facility / shore.

Entry Standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have completed the Basic Training - Elementary First Aid Course or demonstrated competency within the past year. Competency of Basic First Aid and CPR will be tested at the onset of the course, be in good physical health and speaks and understands English.

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III. DECK COURSES

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Advanced Bridge Resource Management (STRCTR-12)

Length 5 days

Objective

To provide review for personnel in areas relevant to bridge resource management, and then to provide advanced training (classroom and simulation) to help team members learn and practice the skills that can help a team function effectively.

The skills that are needed to help a team become a self-correcting unit are known. All skills, even relatively simple ones, require practice and feedback before settling into a team member's repertoire. There is no better alternative than line-oriented marine simulator training to train teams to operate as "real teams" in realistic settings. This course – along with its complementary lecture-based material – provides a substantial amount of "simulator time".

While the purpose of initial BRM training was to expose personnel to human factors and teamwork principles for the purpose of "changing attitudes", the purpose of this advanced course is to train personnel in teamwork behaviors. In so doing, the course continues to satisfy company, national, and international regulations as stated in the Standards of Training Certification and Watchkeeping (STCW) Code, Tables A-II/1 and A-II/2 and Section B-VIII/2 for competence in knowledge of bridge teamwork principles and bridge resource management while enhancing proficiency in teamwork skills.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Bridge Resource Management (STRCTR-12*) course and presenting their Certificate of Training will satisfy: The bridge resource management requirements of 46 CFR 11.309 (a)(4)(vii); 46 CFR 11.319 (a)(4)(vii); and 46 CFR 11.321 (a)(3)(iv); AND the leadership and teamworking skills requirements of 46 CFR 11.309(c)(1); 46 CFR 11.319(b)(1); AND the leadership and managerial skills training requirements of 46 CFR 11.305 (a)(3)(iv) and (b)(1); 46 CFR 11.307(a)(3)(iv) and (b)(1); 46 CFR 11.311(a)(3)(iv) and (b)(1); 46 CFR 11.313(a)(3)(iv) and (b)(1); 46 CFR 11.315 (a)(3)(iii) and (b)(1); 46 CFR 11.317(a)(3)(iv) and (b)(1); AND the bridge resource management requirements of Section A-II/2, Table A-II/1 of the STCW Code, as amended 2010; AND the application of leadership and teamworking skills and the use of leadership and managerial skills of Section A-II/1, Table A-II/1 and Section A-II/2, Table A-II/2 of the STCW Code as amended 2010; The following practical assessments performed during this course have been determined to be equivalent of the National Assessment Guidelines TASK's, as documented in NVIC 10-14 (Ch-4) and 11-14(Ch-4) Tasks 18.1 and 18.2; Provided that the student meets the following prerequisites: Holds a valid endorsement as Rating Forming Part of a Navigational Watch; AND holds a valid endorsement as Third Officer, Second Officer, Chief Officer or Master; AND has successfully completed a 3-Day or 5-Day Bridge Resource Management course with simulator time." Any applicants that were licensed as Master or Chief Mates, Unlimited Tonnage upon Oceans who successfully completed this course since March 11, 2011, will receive credit for completion of this course. This course is also IMO Model Course 1.22 and OCIMF Sire and Behavioral Competency Assessment and Verification guidelines compliant.

Scope

This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools

Full Mission Simulator

Entry standards

Student minimum prerequisites are as follows:

1. Hold a valid certificate / license as rating forming part of a navigational watch (RFPNW) or national equivalent; OR
2. Hold a valid certificate / license as third officer, second officer, chief officer, or master, AND
3. Hold prior certification in the original 3-day or 5-day BRM training, preferably with simulator time.
4. Speak and understand the English language.

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Advanced Shiphandling for Masters and Senior Deck Officers

Length 5 days

Scope

This course is designed for all senior deck officers to provide training in twin-screw and single-screw shiphandling. The student will have the opportunity to practice:

- Channel keeping
- Shiphandling with anchors
- Shiphandling with thrusters
- Shiphandling with tractor and conventional twin-screw tugs

Each participant will have multiple opportunities to serve as master / pilot during bridge simulation.

Objectives

The purpose of this course is to increase shiphandling skills, shiphandling knowledge base, strengthen communication skills, and provide a chance to practice shiphandling in a controlled environment on various types of vessels.

Simulators and Training Tools
Full Mission Simulator

Entry standards
Must have sailed as chief mate unlimited.

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Advanced Shiphandling and Watchkeeping for Third Mates (STRCTR-23)

Length 10 days (excludes weekends)

Objective
Each student who successfully completes this course will be knowledgeable and proficient in advanced shiphandling for third mates. Additionally, students will gain knowledge of:

- Watchkeeping Practices
- COLREGS Review
- Radar-AIS Review
- Handling Characteristics of Ships
- Shiphandling Forces
- Turning Ships
- Boarding Pilot
- Handling Ships in Restricted Waters
- Anchor Work
- Twin Screw Shiphandling
- Shiphandling with Tugs
- Handling Ships in Heavy Weather
- Response of Steam and Diesel Power Plants

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Shiphandling for Third Mates (STRCTR-23)* course within five years of application, will receive sixty (60) days of sea service credit that may be used for a raise in grade from Third Mate of Ocean or Near Coastal self-propelled vessels of unlimited tonnage to Second Mate of Ocean or Near Coastal self-propelled vessels of unlimited tonnage"

Scope
This course is intended to meet the requirements listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Full Mission Simulator

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

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Advanced Emergency Shiphandling for First Class Pilots (Great Lakes)

Length 5 days

Scope
This course is a classroom- and simulator-based course designed for the Great Lakes master and mate. The course topics and exercises expose the student to a higher level of shiphandling practices focusing on emergency response.

The following subjects are covered in the course:

- Basic shiphandling principles.
- Restricted waters shiphandling.
- Introduction to heavy weather shiphandling.
- Introduction to dock approaches.
- Use of anchors.
- Limited emergency response shiphandling.
- Organization and procedures.

Objective
The objective of this course is to instruct the student in the areas relevant to shiphandling and to practice the skills using simulator exercises to reinforce this knowledge, and in doing so provide simulator-based experience that is transferable to on-the-job performance.

Simulators and Training Tools
Full Mission Simulator

Entry standards
Student minimum prerequisite is:

- Hold a valid license as master or mate.

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High Risk/Emergency Shiphandling for Masters

Length 5 days

Scope
This course is designed for Masters to provide training in high risk shiphandling under challenging conditions. The student will have the opportunity to practice:

- Channel keeping
- Docking and undocking under strong environmental conditions and in high risk scenarios
- Shiphandling using tug assistance under strong environmental conditions and in high risk scenarios
- Shiphandling under failure mode conditions, technical and other
- Obtain and maintain situational awareness during changing conditions and under strong environmental conditions and in high-risk scenarios
- Demonstrate dynamic decision-making skills throughout the scenarios

Each participant will have multiple opportunities to serve as master / pilot during the simulations.

Objectives
The purpose of this course is to maneuver several types of vessels under strong environmental conditions and high-risk situations. High situational awareness, sound decision making, and shiphandling skills will be necessary in order to successfully address changing operational issues to succeed. Upon completion of this course the student will have demonstrated high level skills and judgement in high risk and emergency shiphandling.

Simulators and Training Tools
Full Mission Simulator

Entry standards
Must have sailed as Master and have previously taken the course; Advanced Shiphandling for Masters and Senior Deck Officers.

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AZIPOD® (Podded Propulsion) Familiarization

Length 3 days

Scope
The demands of modern-day ship operations in the ports of the world require that mariners and pilots be taught more than the traditional standard basic skills of their craft. While some responsible owners are providing intensive training for their officers and crews in the use of new technology and equipment, few pilots will have had the benefit of any prior knowledge until the vessel arrives at their bar. Since pilots bring local knowledge and shiphandling skills aboard and are mandated by their licensing authorities to ensure the safe navigation of the vessels they serve, it is essential they become familiar with the bridge equipment they will use during the vessel's transit.

Despite a lack of standardization in bridge equipment such as found in the airline industry, pilots are justifiably proud of their ability to adapt to different ships, different equipment, and different cultures. However, the growing use of sophisticated electronic- and computer-controlled systems will require that pilots supplement their basic abilities and shiphandling experience with specific training in the use of this technology. This is already a widely accepted practice with regard to radar and ARPA certification.

Furthermore, new and larger ships calling at ports and waterways present unique challenges as pilots attempt to assimilate them into the existing infrastructure. In some cases, new ports and terminals present their own problems as pilots struggle to cope with the unfamiliar.

This course will introduce the student to the Podded Propulsion technology. The emphasis will be on honing the individual's shiphandling skills. There will be periods of classroom instruction / discussion with the balance of the sessions devoted to hands-on practice of typical piloting and docking maneuvers using the 360° full mission bridge simulator in restricted waters, harbor maneuvering, and docking / undocking
simulations.

Objectives
Upon completing this course, the student will be able to demonstrate gained knowledge of effective shiphandling using Azimuthing Propulsion Systems.

Simulators and Training Tools
Full Mission Simulator

Entry Standards

- At least 18 years of age
- Speaks & understands English
- Company & personal requirements for utilizing Azimuthing Propulsion Systems for handling vessels equipped with same.



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Advanced Training for Polar Operations (STRCTR-808)

Length 5 days (excludes weekends)

Objective
The objectives of the advanced course are to:

- Gain understanding of vessel performance in ice and low air temperature;
- Gain awareness to monitor and ensure compliance with legislative requirements;
- Gain understanding to apply safe working practices and to respond to emergencies;
- Gain understanding and awareness of correct crew preparation, working conditions and safety;
- Navigate in ice covered waters using leads available (with or without potential for pressure) detected visually and by radar;
- Navigate in ice covered waters using leads available (with or without potential for pressure) detected visually and by radar while in close proximity to land and/or shallow water;
- Navigate in iceberg, growler and bergy bit infested waters with restricted visibility and/or onset of twilight;
- Berthing (docking and undocking) a ship in ice infested waters;
- Navigate in an ice convoy maintaining safe distance from icebreaker / ship ahead and astern and using engines in emergency situations due vessel ahead stopping / safe distance reducing;
- Navigate independently through open water leads until ice conditions bring the own ship to a stop and trainee must request icebreaker assistance. Follow proper procedures when operating with an icebreaker including using proper communications procedures;
- Free a ship beset in solid ice;
- Approach and enter ice; and
- Prepare a passage plan and modify the passage plan based on the impact of dynamic ice conditions.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Polar Code Operations (STRCTR-808)* Course will satisfy the training and standards of competence required by STCW Code Section A-V/4 and Table A-V/4-2, as amended 2010, for original or renewal of STCW endorsement for Advanced Polar Code Operations; AND required by STCW Code Section A-V/4 and Table A-V/4-1, as amended 2010, for renewal of STCW endorsement for Basic Polar Code Operations."

Scope
This course provides training to navigation officers to operate ships in polar waters and to address those additional provisions deemed necessary for consideration beyond existing requirements of the SOLAS and MARPOL Conventions, in order to account for the climatic conditions of polar waters and to meet appropriate standards of maritime safety and pollution prevention.

This is a classroom course that is intended to meet the USCG Approved and STCW Compliant Course Certificate section listed above.

Simulators and Training Tools
Full Mission Simulator

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should hold a certificate as "Master, Chief mate or Officer In Charge of a Navigation Watch" qualified in accordance with regulations II/1, II/2 and II/3 of the STCW Convention, respectively; and either have met the requirements for basic training for ships in polar waters in accordance with STCW Regulation transitional provisions or hold a certificate in basic training for ships in polar waters; and have at least two (2) months of approved seagoing service in the deck department at management level, or while performing watch-keeping duties at operational level, within Polar Waters or other equivalent approved seagoing service.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

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Basic Training for Polar Operations (STRCTR-820)

Length 5 days

Objective

To facilitate the timely introduction of Polar Code training programs to officers who serve onboard ships operating in Polar Waters. Each student who successfully completes this course will be knowledgeable and proficient in:

- Ability to contribute to safe operation of vessels operating in polar waters;
- Understanding of ice characteristics and areas where different types of ice can be expected in the area of operation;
- Understanding of vessel performance in ice and low air temperature;
- Understanding of safe operations and ship maneuverability in ice;
- Awareness to monitor and ensure compliance with legislative requirements;
- Understanding to apply safe working practices, respond to emergencies;
- Understanding and awareness of correct crew preparation, working conditions and safety;
- Understanding the need to ensure compliance with pollution prevention requirements and prevent environmental hazards; and
- Understanding skills to perform maneuvers in order to safely operate ships in polar waters.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Basic Polar Code Operations (STRCTR-820)* course will satisfy the training and standards of competence required by STCW Code Section A-V/4 and Table A-V/4-1, as amended 2010 for STCW endorsement for Basic Polar Code Operations"

Scope

This course provides training to navigation officers to operate ships in polar waters and to address those additional provisions deemed necessary for consideration beyond existing requirements of the SOLAS and MARPOL Conventions, in order to account for the climatic conditions of polar waters and to meet appropriate standards of maritime safety and pollution prevention.

This is a classroom course that is intended to meet the minimum standard of competence in basic polar code operations as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools

Full Mission Simulator

Entry standards/Prerequisites

This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should hold a certificate as "Master, Chief mate or Officer In Charge of a Navigation Watch" qualified in accordance with regulations II/1, II/2 and II/3 of the STCW Convention, respectively; or, be enrolled in an approved cadet program and have completed training in navigation safety, electronic navigation, meteorology, chart work, stability, construction and international conventions (i.e.: SOLAS and MARPOL) and have completed their qualifying sea service.

Please be prepared for class with the following:

STAR will provide all necessary course materials.

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Bridge Resource Management (35-Hour) (STRCTR-84)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Bridge Resource Management. Additionally, students will gain knowledge of:

- Human Factors
- Voyage Planning
- Bridge Organization and Procedures
- Situational Awareness
- Multi-cultural Diversity
- Communications
- Pilot Bridge Team Integration
- Stress
- Fatigue
- Leadership
- Maritime Conventions and National Legislation

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any Applicant who has successfully completed our Bridge Resource Management (35-Hour) (STRCTR-84) course will satisfy:

- The Bridge Resource Management training requirements of 46 CFR 11.309(a)(4)(vii) for an STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) for vessels of 500 GT (ITC) or more (Operational Level); AND
- The Bridge Resource Management training requirements of 46 CFR 11.319(a)(4)(vii) for an STCW endorsement as OICNW of vessels of less than 500 GT (ITC) (Operational Level); AND
- The Bridge Resource Management training requirements of 46 CFR 11.321(a)(3)(iv) for an STCW endorsement as OICNW of vessels of less than 500 GT (ITC) limited to near-coastal waters (Operational Level); AND
- The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.309(c)(1) and 11.319(b)(1); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 12-14(Ch-6) and 02-18(Ch-3) Tasks 18.1.A, 18.2.A, 18.3.A, 18.4.A and 18.5.A; AND
- The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.321(b)(1); STCW Code Section A-II/3 and Table A-II/3, as amended 2010.

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Full Mission Simulator

Entry Standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

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Dynamic Positioning - INDUCTION

Length 5 days

Objective
This course is approved by Nautical Institute as Phase A in The Nautical Institute Dynamic Positioning Accreditation and Certification Standard. At the end of the course the student should have acquired knowledge of the principles of Dynamic Positioning, be able to set up a dynamic positioning system and understand the practical operation of associated equipment, including position reference systems. Student should be able to recognize and respond to the various alarms, warning and information messages. Student should also be able to relate the DP installation to the ship system, e.g. power supply, maneuvering facility, available position reference systems and nature of work. He/she should also be able to relate DP operations to the existing environmental conditions of wind, sea state, current and vessel movement.

The course certificate will state:
"Has satisfied the DP training and demonstration of competence requirements of Nautical Institute's Dynamic Positioning Certification and Accreditation Standard as amended, DP Induction Course (Phase A) including; DP Control Station, Power Generation and Management, Position Reference Systems (PRS), Heading and Motion Reference Systems, Environmental Reference Systems, External Force Reference Systems, DP Operations, Propulsion Units and Practical Operation of a DP System; AND the Guidance on the Training and Experience for Personnel Operating Dynamic Positioning Systems IAW Section B-V/f of the STCW Code as amended."

Scope
This course will familiarize participants with Dynamic Positioning Systems. The course covers the functionalities of a DP system including:

- Principles aand elements of DP
- System and Equipment Classes
- Modes and Settings
- Coordinate Systems
- Position Reference Systems
- Sensors
- Thruster and Power Systems
- Operational Planning
- Risk Assessment
- Alarm and Message System

There will be ten (10) lecture modules fortified with practical exercises using stand-alone DP simulators. At the start of this course the Nautical Institute DP Operator's training scheme will be outlined including maintaining of the logbook and the procedure for obtaining the certificate.

Simulators and Training Tools
Nautical Institute Simulator Class C as specified in The Nautical Institute Certification and Accreditation Standard Vol.2 – Accreditation as amended.

Entry standards
Validation of STCW Certificate of Competency. This course is designed for Deck officers as the first step in the Nautical Institute's training scheme towards DP certification. It is a requirement that Training Centers ask for and check the validity of Certificate of Competency of their students before accepting them into the DP basic course and DP scheme. Training Centers are required to check if students are in possession of a Certificate of Competency before accepting them into the DP basic course and DP scheme.

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Dynamic Positioning - SIMULATOR

Length 5 days

Objective
This course is approved by Nautical Institute as Phase C in The Nautical Institute Dynamic Positioning Accreditation and Certification Standard. On completion of this course the student should be able to carry out operational planning, risk assessment, and hazard identification tasks. Set up the DP system for a particular task and react to all events as they occur.

The course certificate will state:

"Has satisfied the DP training and demonstration of competence requirements of Nautical Institute's Dynamic Positioning Certification and Accreditation Standard as amended, DP Simulator Course (Phase C) including Operation of a DP System, DP Operation and Emergency Procedures; AND the Guidance on the Training and Experience for Personnel Operating Dynamic Positioning Systems IAW Section B-V/f of the STCW Code as amended."

Scope
The intention of the DP Simulator Course is to build on experience obtained so far, and to provide some realistic DP-based scenario work. These scenarios should provide the opportunity to practice all aspects of the planning and conduct of typical DP operations, including the handling of emergency situations.

Simulators and Training Tools
Nautical Institute Simulator Class B as specified in The Nautical Institute Certification and Accreditation Standard Vol.2 – Accreditation as amended.

Entry standards
This course is designed for Deck officers as the third step in the Nautical Institute's training scheme toward DP certification.

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Dynamic Positioning - REVALIDATION

Length 5 days

Objective
This course is approved by Nautical Institute as an alternative route to certificate revalidation in the Nautical Institute Dynamic Positioning Accreditation and Certification Standard. The course is intended for the DPO who will revalidate the NI issued DP Certificate, starting 5 years after the initial certification following the DP training scheme. The overall course aim is to update the DPOs with the latest rules and regulations, position references and sensors, known DP incidents and lessons learned.

Prior to course commencement, training centers shall advise candidates to confirm that they meet the DP sea time requirements in accordance with the minimum entry qualification requirements specified in this standard. The DP Revalidation Course may be undertaken in the following circumstances:

- The DPO has accumulated less than 150 DP sea time days within the validity period of the DPO certificate.

OR

- The DPO has accumulated a minimum 150 days of DP sea time within the validity period of the DP certificate but elects to complete the DP Revalidation Course in lieu of completing the continuing professional development (CPD) program and the DP Revalidation online exam.

This course is also approved by the Nautical Institute to satisfy the DP Continual Professional Development (CPD) scheme.

The course certificate will state:

"has satisfied the DP training and demonstration of competence requirements of Nautical Institute's DP Revalidation Course. This course satisfies The Nautical Institute Certification and Accreditation Standard Vol 1 – Training and Certification, Annex F, DP Revalidation Course. This is a classroom and simulator based course that is designed for the DPO who has accumulated less than 150 DP sea time days within the validity period of the NI issued DPO certificate OR; the DPO who has accumulated a minimum 150 days of DP sea time within the validity period of the NI issued DPO certificate but elects to complete the DP Revalidation Course in lieu of completing the continuing professional development (CPD) program and the DP Revalidation online exam. If the participant is completing the course for the first time, there is no minimum DP sea time requirement. Where a participant is undertaking the DP Revalidation Course for a second or subsequent time, a minimum of 28 DP sea time days is required for revalidation. This sea time may be accrued either before or after completion of the DP Revalidation Course; however, the sea time must have been gained within the validity period of the NI issued DPO certificate."

Scope
The intention of the DP Revalidation Course is to provide an alternative route to revalidation; and to serve as Continuing Professional Development (CPD) in the DP Continual Professional Development (CPD) scheme.

Simulators and Training Tools
Nautical Institute Simulator Class B as specified in the Nautical Institute Certification and Accreditation Standard Vol.2 – Accreditation as amended.

Entry standards
The minimum entry requirement is a DPO certificate issued by The Nautical Institute

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Locking & Docking for First Class Pilots

Length 5 days

Scope
This course is a classroom- and simulator-based course designed for the Great Lakes master and mate. The course topics and exercises expose the student to a higher level of shiphandling focusing on approaches and departures from locks and docks.

Objective
The purpose of the course is to provide the student with theory and training in advanced areas of shiphandling relevant to making approaches and departures to docks and locks. These skills will be reinforced using various simulator exercises as practice. The use of these exercises will provide the student with simulator-based experience that is transferable to on-the-job performance.

Simulators and Training Tools
Full Mission Simulator

Entry standards
The course is open to students who have a need for such training, who hold a valid license as master, mate, or first-class pilot, and meet the following criteria:

- In good physical health.
- Speak and understand English.
- At least 21 years of age.

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Towing Officer Assessment Record (TOAR)

Length 5 days

Scope
In accordance with USCG NVIC 03-16, "every candidate for initial certification as Mate (Pilot) of Towing Vessel must complete an approved training course or a TOAR."

This program is offered to deck officers who are compliant with OICNW and have STCW certification; it covers an additional 36% of the TOAR requirements. OICNW covers 32% for a total of 68% of the requirements signed by a Designated Examiner at the end of the program.

Objective
The objective of the program is to provide students with the detailed knowledge and assessments related to TOAR as per NVIC 03-16.

Simulators and Training Tools
Full Mission Simulator

Entry Standards
The program is open to students who have a need for such training as required by the United States Coast Guard NVIC 03-16. Students must be licensed at least at the level of Unlimited–Third Mate or have an equivalent, valid STCW certifications and the following:

- In good physical health;
- Speaks and understands English; and
- At least 21 years of age.

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Tractor Tugs

Length 5 days

Scope
This course is intended to meet the requirements of all common tractor tug operations for ship assists and escort.

Objective
The objective of the course is to provide the student with training in tractor tug operations and capabilities.

Simulators and Training Tools
Full Mission Simulator

Entry standards
The course is open to anyone in need of such training. It is best suited for persons with a background in shiphandling or conventional assist tug operations.

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Visual Communications (Flashing Light) (STRCTR-542)

Length 1 day

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Visual Communications. Additionally, students will gain knowledge of:

- The International Code of Signals
- The ability to receive by Morse Light the distress signal "SOS" and single-letter signals at a transmission speed of at least 4 words per minute.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Visual Communications (Flashing Light) (STRCTR-542)* course will satisfy the Visual Signaling training requirements of 46 CFR 11.309(a)(4)(vi) and 11.319(a)(4)(vi) for STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) (Operational Level); AND the Visual Signaling standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-7) and 02-18(Ch-5) Tasks 8.1 and 8.2.

Applicants who have successfully completed your course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet USCG Visual Signaling requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Task/Desk Top Simulation

Entry standards
This course is open to all persons seeking an original deck license and any person with an existing deck license seeking a raise of grade and is in good physical health and speaks and understands English.

Teaching Facility
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Watchstanding Skills Standardization & Assessment Program

Length 5 days

Objective
The program's objective is to standardize and validate deck officer's skill sets through training sessions, case study and seminar discussions as well as bridge simulator training and assessment exercises in the following areas:

- Understanding and Application of the COLREGS
- STCW Watchkeeping Regulation A-VIII/2
- Voyage Planning
- Briefing the watch team, including lookouts
- Taking over the watch
- Performing the watch
- Equipment
- Piloting, shiphandling and maneuvering of the vessel for position keeping, hazard avoidance and traffic (safety of navigation)
- Position fixing, intervals, all means available
- Electronic navigation, electronic aids capabilities and limitations (including echo sounder)
- ECDIS
- Radar use IAW COLREGS
- Notifying the master and taking immediate action required for ship safety
- Restricted visibility
- Proper records/log keeping related to navigation
- Overall bridge management and leadership
- Changing watch condition and manning as needed
- Preparations for entering port or taking on a pilot (including gear tests as needed)
- Watchkeeping techniques for different conditions and areas

Scope
This course assesses a deck officer's navigational watch keeping skills using criteria from the regulatory requirements of the STCW Code Table A II-1 (as amended), CFR and industry best practices. During multiple, well designed and validated exercises the candidate will be assessed using an objective process keyed to each task and procedure.

Simulators and Training Tools
Full Mission Simulator

Entry standards
This course is open to students who have a need for such training and assessment.

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IV. DECK UPGRADE AT THE MANAGEMENT LEVEL (STCW 2010)

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Advanced Cargo Handling & Stowage (Management Level)

(STRCTR-13)

Length 5 days

Objective

Each student who successfully completes this course will be knowledgeable and proficient in cargo handling and stowage at the management level and demonstrate competence in the following areas:

Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes

- Knowledge of and ability to apply relevant international regulations, codes and standards concerning the safe handling, stowage, securing and transport of cargoes
- Knowledge of the effect on trim and stability of cargoes and cargo operations Use of stability and trim diagrams and stress-calculating equipment, including automatic data-based (ADB) equipment, and knowledge of loading cargoes and ballasting in order to keep hull stress within acceptable limits
- Stowage and securing of cargoes on board ships, including cargo-handling gear and securing and lashing equipment
- Loading and unloading operations, with special regard to the transport of cargoes identified in the Code of Safe
- Practice for Cargo Stowage and Securing
- General knowledge of tankers and tanker operations
- Knowledge of the operational and design limitations of bulk carriers
- Ability to use all available shipboard data related to loading, care and unloading of bulk cargoes
- Ability to establish procedures for safe cargo handling in accordance with the provisions of the relevant instruments such as IMDG Code, IMSBC Code, MARPOL 73/78 Annexes III and V and other relevant information
- Ability to explain the basic principles for establishing effective communications and improving working relationship between ship and terminal personnel

Assess reported defects and damage to cargo spaces, hatch covers and ballast tanks and take action

- Knowledge of the limitations on strength of the vital constructional parts of a standard bulk carrier and ability to interpret given figures for bending moments and shear forces
- Ability to explain how to avoid the detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling

Carriage of dangerous goods

- International regulations, standards, codes and recommendations on the carriage of dangerous cargoes, including the International Maritime Dangerous Goods (IMDG) Code and the International Maritime Solid Bulk Cargoes (IMSBC) Code
- Carriage of dangerous, hazardous and harmful cargoes; precautions during loading and unloading and care during the voyage

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Cargo Handling & Stowage at the (Management Level) (STRCTR-13)* course will satisfy the Cargo Handling and Stowage at the Management Level training requirements of the STCW, as amended 2010, Table A-II/2 and the following Tasks from the National Assessment Guidelines NVIC's 10-14 and 11-14: 11.1.A, 11.1.B, 11.4.B, 11.4.C, 11.4.D, 11.5.A, 11.5.B, 11.5.C, 11.5.D, 11.5.E, 11.6.A, 11.6.B, 11.6.C, 11.6.D, 11.7.A, 11.8.A, 11.8.B,11.9.A, 12.1.A, 13.1.A, 15.1.A, 15.1.B, 15.1.C, 15.2.A, 15.4.A, 15.4.B, 15.4.C, 15.4.D, 15.4.E, 15.4.F, 15.4.G, 15.6.A, 15.6.B, 15.7.A, 15.8.A, 16.2.A and 16.3.A. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for theses assessments in application towards STCW certification."

Scope

This is a classroom course that is intended to meet the Advanced Cargo Handling & Stowage at the (Management Level) training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools

Task/Desk Top Simulation

Entry standards/Prerequisites

This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Teaching Facility

STAR Center, Dania Beach, Florida.

*May also be offered as an online course. Please contact Student Services for more information.

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Celestial Navigation (Management Level) (STRCTR-110)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in celestial navigation. Additionally, students will gain knowledge of:

- Rising and Setting Phenomena
- Identifying and Selecting Stars
  - practical assessments in identifying and selecting stars
- Compass Error
- Times of Meridian Transit
- Latitude at meridian Transit
  - practical assessment meridian transit observations
- Ex-meridians
  - practical assessment in ex-meridian observations
- Correcting sextant altitude
- position fixing
  - practical assessments plotting an LOP and a running fix

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Celestial Navigation (Management Level) (STRCTR-110)* course will satisfy: The Celestial Navigation (Management Level) standards of competence required by 46 CFR 11.305(a)(2), 11.307(a)(2), 46 CFR 11.311(a)(2),11.313(a)(2),and 11.315(a)(2); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 10-14(Ch-5),11-14(Ch-5),and 03-18(Ch-4) Tasks 2.1.A, 2.1.B, 2.1.C, and 3.1.A.
Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry Standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Notice Regarding Celestial Navigation Requirements for Upgrading From 2nd Mate to Chief Mate Unlimited
In order to upgrade from 2nd Mate to Chief Mate unlimited, the USCG requires that the following celestial navigation practical assessments/control sheets be completed in accordance with USCG NMC Policy Letter 04-02, available at http://www.uscg.mil/nmc.

- M-1-2A-Ex-meridian Observation
- M-1-2B- Meridian Passage Observation
- M-1-2C-Identifying Unknown Stars
- M-1-2D-Selecting Stars or Planets
- M-1-2E-Plotting a LOP
- M-1-2F-Plotting a Running Fix

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Advanced Meteorology (STRCTR-18)

Upgrade: Advanced Meteorology

Length 5 days

Objective

Each student who successfully completes this course will be knowledgeable and proficient in forecasting weather and oceanographic conditions. Additionally, students will gain knowledge of:

- **SYNOPTIC CHARTS**
  - Synoptic and prognostic charts and forecasts from any source
  - The range of information available through fax transmission, internet and email
- **CHARACTERISTICS OF VARIOUS WEATHER SYSTEMS**
  - Fronts and mid-latitude lows
  - Non-frontal systems
  - Tropical revolving storms (TRS)
- **WEATHER FORECASTING AND VOYAGE PLANNING**
  - Weather Forecasting
  - The principle of voyage planning with respect to weather conditions and wave height
  - Climatological Routing
  - Synoptic Weather Routing
  - Avoidance of Tropical revolving storms (TRS)
- **OCEAN CURRENT SYSTEMS AND ICE**
  - Surface water circulation of the ocean and principal adjoining seas
  - The formation of sea waves and swell waves
  - The main types of floating ice, their origins and movements
  - The guiding principles relating to the safety of navigation in the vicinity of ice
  - Conditions leading to ice accretion on ship‘s superstructures, dangers and remedies available
- **TIDE AND CURRENTS**
  - Ability to calculate tidal conditions

    Appropriate nautical publications on tides and currents and information which can be obtained via internet and email

This Course is USCG Approved and STCW Compliant. The course certificate will state:

“Any applicant who has successfully completed our *Advanced Meteorology (STRCTR-18)* course will satisfy the training requirements of:

- 46 CFR 11.305(a)(3)(iii) and 11.307 (a)(3)(iii) for STCW endorsement as Master or Chief Mate on vessels of 3,000 GT (ITC) or more (Management Level); AND
- 46 CFR 11.311(a)(3)(iii) and 11.313(a)(3)(iii) for STCW endorsement as Master or Chief Mate on vessels of 500 GT (ITC) or more and less than 3,000 GT (ITC) (Management Level); AND
- The Advanced Meteorology standards of competence required by 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311 (a)(2), 11.313(a)(2) and 11.315(a)(2); STCW Code Section A-II/2, and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from: NVICs 10-14(Ch-5) and 11-14 (Ch-5) Tasks 7.1, 7.2. and 7.3; AND NVIC 03-18(Ch-4) Tasks 7.1.A, 7.2.A, and 7.3.A.

Applicants who have successfully completed this course need not present completed “Task Control Sheets” for these assessments in application for STCW certification.”

Scope

This course is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards

This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an “Officer-in-Charge of a Navigation Watch” or have an equivalent and experiential background, be in good physical health and speaks and understands English.

This is a concentrated advanced level 5-day course in Meteorology that requires that the student already have a general basic knowledge and understanding of weather and weather systems.

Topics to be covered include:

- **Basic requirements and responsibilities of forecasting weather and oceanographic conditions**
- **Planetary and synoptic scale meteorology** – *planetary system of wind and pressure*
- **The weather associated with principal air mass types**
- **500 Mb upper air concepts and facsimile charts**
- **characteristics of various synoptic systems** – *the formation, structure, and weather associated with depressions and principal frontal systems – the formation structure and weather associated with non-frontal depressions and weather systems – the formation of sea waves and sea swells*
- **Application of facsimile charts** – *Evaluation of synoptic scale analyses and prognostic charts from any source - The Maritime*

Forecast Code and the range of information available through fax transmissions – voyage planning with respect to weather conditions and wave height

- **Tropical Revolving Storms (TRS)**
- **Ocean current systems** – *surface water circulation of the ocean and principle adjoining seas*
- **Types of ice, origins and movements** – *the guiding principles relating to the safety of navigation in the vicinity of ice – conditions leading to ice accretion on ship's superstructure, dangers and remedies available*
- **Meteorological tide and currents**
- **Forecasting and routing software systems**

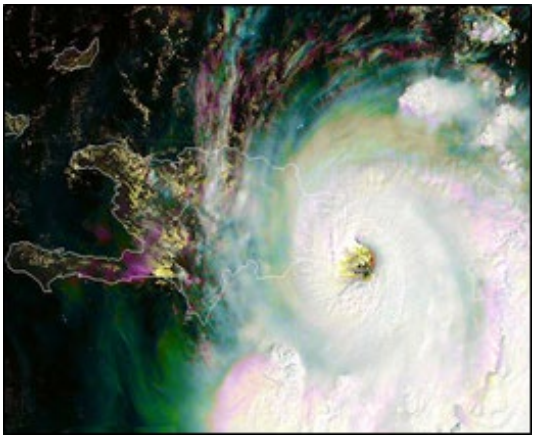
Please be prepared for class with the following:

Prior to reporting for the course, it is highly recommended that any unfamiliar topics be reviewed using one or both of the following course references:

Weather for the Mariner 3rd Ed.
William J. Kotsch, Rear Admiral, U.S. Navy (retired)
1983
Mariner Weather
Nathaniel Bowditch
1977

Teaching Facility

STAR Center, Dania Beach, Florida



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Advanced Navigation (STRCTR-19)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in navigation at the management level. Additionally, students will gain an understanding of:

- Planning a voyage and conducting navigation
- Determining position and the accuracy of resultant position fix by any means
- Determining and allowing for compass errors

Upon completion of this course, the students will be knowledgeable and proficient in the following areas:

- Voyage Planning: Appraisal, Planning, Execution and Monitoring
- Terrestrial Navigation: GPS, Great Circle Sailing and Mercator Sailing
- Bridge Systems: IBS, Magnetic Compasses and Gyro Compasses
- Determine Compass Error: Amplitudes
- Tides and Currents

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Navigation (STRCTR-19)* course will satisfy: The Advanced Navigation standards of competence required by 46 CFR 11.305(a)(2) and 11.307(a)(2) for STCW endorsement as Master or Chief Mate of vessels of 3,000 GT (ITC) or more (Management Level); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVIC 10-14(Ch-4) Tasks 1.1.A, 1.2.A, 1.2.B, 1.2.C, 2.2.A, 3.2.A, 3.3.A, 5.2.A, 7.4.A, 7.4.B, and 7.4.C; AND The Advanced Navigation standards of competence required by 46 CFR 11.311(a)(2) and 11.313(a)(2) for STCW endorsement as Master or Chief Mate of vessels of 500 GT (ITC) or more and less than 3,000 GT (ITC) (Management Level); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVIC 11-14(Ch-4) Tasks 1.1A, 1.2.A, 1.2.B, 1.2.C, 2.2.A, 3.2.A, 3.3.A, 5.2.A, 7.4.A, 7.4.B, and 7.4.C; AND The Advanced Navigation standards of competence required by 46 CFR 11.315(a)(2) for STCW endorsement as Master of vessels of less than 500 GT (ITC) (Management Level); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVIC 03-18(Ch-2) Tasks 1.1.A, 1.2.A, 1.2.B, 1.2.C, 2.2.A, 3.2.A, 3.3.A, 5.2.A, 7.4.A, 7.4.B, and 7.4.C. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application towards STCW certification."

Scope
This is a classroom course that is intended to meet the Navigation at the Management Level training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Full Mission Simulator

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

Advanced Shiphandling (STRCTR-22)

Upgrade: Shiphandling at the Management Level

Length 10 days (excludes weekends)

Objective
Each student who successfully completes this course will be knowledgeable and proficient in advanced shiphandling. Additionally, students will gain knowledge of:

- Handling characteristics of ships
- Shiphandling forces
- Turnings ships
- Ship handling in restricted waters
- Picking up pilots
- Berthing and the use of anchors
- Shiphandling with tugs
- Dry Docking
- Response of steam and diesel plants
- Handling ships in heavy weather
- Practical ice navigation
- Handling ships in heavy weather
- Respond to Navigational Emergencies

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Shiphandling (STRCTR-22)* course will satisfy: The Advanced Shiphandling training requirements of 46 CFR 11.305(a)(3)(i) and 11.307(a)(3)(i) for STCW endorsement as Master of Chief Mate of vessels of 3,000 GT (ITC) or more (Management Level); AND The Advanced Shiphandling training requirements of 46 CFR 11.311(a)(3)(i) and 11.313(a)(3)(i) for STCW endorsement as Master or Chief Mate of vessels of 500 GT (ITC) or more or less than 3,000 GT (ITC) (Management Level); AND The Search and Rescue training requirements of 46 CFR 11.305(a)(3)(v), 11.307(a)(3)(v), 11.311(a)(3)(v), 11.313(a)(3)(v), and 11.315(a)(3)(i) for STCW endorsement as Master or Chief Mate (Management Level); AND The standards of competence required by 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311(a)(2), 11.313(a)(2), and 11.315(a)(2); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from: NVICS 10-14(Ch-4) and 11-14(Ch-4) Tasks 4.1, 5.1, 5.3.A, 8.1, 8.2, 8.3, 8.4, 8.5.A, 8.6.A, 8.7.A, 9.1.A, 9.2.A, 9.3.A, 9.4.A, 9.5.A, 9.6.A, 9.6.B [NVIC 10-14(Ch-4) only], 9.7.A, 9.8.A, 9.9.A, 9.9.B, 9.11, 9.12, 9.13, 9.14, 9.15, 9.16.A, 9.16.B, 9.17.A, 16.1.A, 16.4.A, 16.4.B, 16.5.A, and 16.5.B; AND NVIC 03-18(Ch-2) Tasks 4.1, 5.1, 5.3.A, 8.1.A, 8.2.A, 8.3.A, 8.4.A, 8.5.A, 8.6.A, 8.7.A, 9.1.A, 9.2.A, 9.3.A, 9.4.A, 9.5.A, 9.6.A, 9.7.A, 9.8.A, 9.9.A, 9.9.B, 9.11.A, 9.11.B, 9.11.C, 9.12.A, 9.13.A, 9.14.A, 9.15.A, 9.16.A, 9.16.B, 9.17.A, 16.1.A, 16.4.A, 16.4.B, 16.5.A, and 16.5.B. Applicants who have successfully completed our course need not present completed "Task Control Sheets' for these assessments in application for STCW certification."

Scope
This course is intended to meet the Advanced Shiphandling training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.



Simulators and Training Tools
Full Mission Simulator

Entry Standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

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Advanced Stability (STRCTR-25)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in advanced stability. Additionally, students will gain an understanding of fundamental principles of ship construction and the theories and factors affecting trim and stability and measures necessary to preserve trim and stability; knowledge of the effect on trim and stability of a ship in the event of damage to and consequent flooding of a compartment and countermeasures to be taken and knowledge of IMO recommendations concerning ship stability. Upon completion of this course, the students will be knowledgeable and will have demonstrated proficiency in the following areas:

- Transvers Stability
  - IMO recommendations concerning ship stability
  - Determine KG, KM GM
  - Inclining experiment
  - Stability at large angles
  - Free surface
- Longitudinal Stability
- Hull Strength
- Damaged Conditions
  - Collision
  - Grounding
- Practical Stability Considerations
  - Rolling
  - Watertight integrity
  - Effects of cargo on trim and stability
  - Timber cargo
  - Ice accumulation
- Dry docking

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Advanced Stability (STRCTR-25)* course will satisfy:

- The Advanced Stability training requirements of 46 CFR 11.305(a)(3)(ii) and 11.307(a)(3)(ii) for STCW endorsement as Master or Chief Mate on vessels of 3,000 GT (ITC) or more (Management Level); AND
- The Advanced Stability training requirements of 46 CFR 11.311(a)(3)(ii) and 11.313(a)(3)(ii) for STCW endorsement as Master or Chief Mate on vessels of 500 GT (ITC) or more and less than 3,000 GT (ITC) (Management Level); AND
- The Advanced Stability standards of competence required by 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311(a)(2), 11.313(a)(2), and 11.315(a)(2); STCW Code Section A-II/2 and Tables A-II/2, as amended 2010, meeting the National Assessment Guidelines from:
  - NVIC 10-14(Ch-5) Tasks 9.10, 9.16.B, 11.1.B, 11.2, 11.3, 11.5.D, 14.1, 14.2, 14.3, and 17.2.A; AND
  - NVIC 11-14(Ch-5) Tasks 9.10, 9.16.B, 11.1.B, 11.2, 11.3, 11.5.C, 14.1, 14.2, 14.3, and 17.2.A; AND
  - NVIC 03-18(Ch-4) Tasks 9.10.A, 9.16.B, 11.2.A, 11.3.A, 11.5.C, 14.1.A, 14.2.A, 14.3.A, and 17.2.A.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

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Scope
This course is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Task/Desk Top Simulation

Entry Standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English. At least 21 years of age.

Please be prepared for class with the following:
Please note that if you are already a Chief Mate, then this is **NOT** the class for you.
Due to the demand and nature of this course, enrollment is limited to persons who require these assessments for regulatory purposes.

You must meet the following requirements before registering for this course:

It is recommended that chapters 1-9 and chapters 11 and 12 be reviewed in the textbook, *Stability and Trim for the Ship's Officer* by John La Dage, prior to coming to the class.

Subjects covered will include:

- what is stability?
- calculation of KG
- determining KM
- calculating GM
- The Inclining Experiment
- stability at large angles
- free surface
- trim
- longitudinal hull strength: shear and bending moments
- the ship in the damaged condition
- practical stability and trim considerations

All exercises, homework and the written assessment will be required to be solved manually, using a hand-held, non-programmable calculator, except for specific exercises done on a stability software program, and a practical assessment using this software.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

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Leadership & Managerial Skills (STRCTR-751)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Leadership and Managerial Skills regulations as stated in Standards of Training Certification and Watchkeeping as amended tables- A-II/2, and A-III/2. Additionally, students will gain knowledge of:

> Leadership and Management: Decision Making, Strategic Planning, Task & Workload Management, Effective Resource Management Onboard, Effective Communications, Assertiveness, Leadership and Motivation, Obtaining and Maintaining Situational Leadership
> Leadership in the Maritime Environment: Personnel Management and Administration, Operations, Drills and Training, Maintanence and Drydocking, International Maritime Conventions and Recommendations and National Legislation, Safety and Environmental Leadership in the Maritime Industry, Development, implementation and oversight of standard operating procedures

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Leadership and Managerial Skill (STRCTR-751)* course will satisfy: The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.309(c)(1) and 11.319(b)(1); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-5) and02-18(Ch-3) Tasks 18.1.A, 18.2.A, 18.3.A, 18.4.A and 18.5.A; AND The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.321(b)(1); STCW Code Section A-II/3 and Table A-II/3, as amended 2010; AND The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.329(c); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-5) Tasks 16.1.A, 16.2.A, 16.3.A, and 16.4.A; AND The Leadership and Managerial Skills training requirements of 46 CFR 11.305(a)(3) (iv), 11.307(a)(3)(iv), 11.311(a)(3)(iv), 11.313(a)(3)(iv), 11.315(a)(3)(iii), 11.317(a)(3), 11.325(a)(3)(ii), 11.327(a)(3)(ii), 11.331(a)(3)(ii), and 11.333(a)(3)(ii); AND The Leadership and Managerial Skills standards of competence required by 46 CFR 11.305(b)(1), 11.307(b)(1), 11.311(b)(1), 11.313(b)(1), and 11.315(b)(1); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 10-14(Ch-4), 11-14(Ch-4), and 03-18(Ch-2) Tasks 15.3.A, 15.5.A, 15.8.A [NVIC 10-14(Ch-4) only], 18.1, and 18.2; AND The Leadership and Managerial Skills standards of competence required by 46 CFR11.317(b)(1); STCW Code Section A-II/3 and Table A-II/3, as amended 2010; AND The Leadership and Managerial Skills standards of competence required by 46 CFR 11.325, 11.327, 11.331, and 11.333; STCW Code Section A-III/2 and Table A-III/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 15-14(Ch-4) and 16-14(Ch-3) Task 7.1.D, 11.1.A, 12.1.A, and 14.1.A. Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This is a classroom course that is intended to meet the Leadership and Managerial Skills training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

Teaching Facility
STAR Center, Dania Beach, Florida
* May also be offered as an online course. Please contact Student Services for more information.

Management of Medical Care (STRCTR-788)

Length ½-day

Objective
This course is intended to meet the Management of Medical Care training requirements of 46 CFR 11.305(a)(3)(ix); 11.307(a)(3)(ix); 11.311(a)(3)(vi); 11.313(a)(3)(vi); and 11.315(a)(3)(ii) and Table A-II/2 of the STCW Code as amended: Organize and manage the provision of medical care on board. The practical assessments conducted in this course are the equivalent of the following assessment from the National Assessment Guidelines for Table A-II/2 of the STCW Code as amended and meets the requirements of Task 19.1.A, Task 19.2.A and Task 19.3.A listed in NVIC 10-14.
Each student who successfully completes this course will be knowledgeable and proficient in Management of Medical Care and meeting this requirement for the following areas:

- Medical Publications
  - International Medical Guide for Ships
  - Medical First Aid Guide For Use in Accidents Involving Dangerous Goods
  - Radio Medical Advice
- International Code of Signals Publication 102 (Medical Section) For Ships

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who successfully completes our *Management of Medical Care (STRCTR-788)* course will satisfy: The Management of Medical Care training requirements of 46 CFR 11.305(a)(3)(ix), 11.307(a)(3)(ix), 11.311(a)(3)(vi), 11.313(a)(3)(vi) and 11.315(a)(3)(ii); AND The Management of Medical Care standards of competence required by 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311(a)(2), 11.313(a)(2) and 11.315(a)(2); STCW Code A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 10-14(Ch-4), 11-14(Ch-4) and 03-18(Ch-2) Tasks 19.1, 19.2 and 19.3. Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification. This course does not satisfy the training or standards of competence requirements for an STCW endorsement as Person In Charge of Medical Care"

Scope
This is a classroom course that is intended to meet the Management of Medical Care training requirements for raise of grade to Chief Mate (management level) as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have at least an STCW Certification as an "Officer-in-Charge of a Navigation Watch", or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

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Marine Propulsion Plants (STRCTR-272)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Marine Propulsion Plants. Additionally, students will gain knowledge of:

- Operating principles of marine power plants
- Ship's auxiliary machinery
- General knowledge of marine engineering terms

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Marine Propulsion Plants (STRCTR-272)* course will satisfy the standards of competence required by:

- 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311(a)(2), 11.313(a)(2), and 11.315(a)(2); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from:
  - NVIC 10-14(Ch-5) Tasks 10.1.A, 10.1.B, 10.1.C, 10.1.D, 10.2.A, 10.2.B, 10.2.C, 10.2.D, 10.2.E, 10.2.F, 10.2.G, 10.2.H, 10.2.I, 10.2.J, 10.2.K, 10.3.A and 10.3.B; AND
  - NVIC 11-14(Ch-5) Tasks 10.1.A, 10.1.C, 10.1.D, 10.2.A, 10.2.B, 10.2.C, 10.2.E, 10.2.G, 10.2.H, 10.2.I, 10.2.J, 10.3.A and 10.3.B; AND
  - NVIC 03-18(Ch-4) Tasks 10.1.A, 10.1.B, 10.1.C, 10.1.D, 10.2.B, 10.2.C, 10.2.D, 10.2.E, 10.2.F, 10.2.G, 10.2.H, 10.2.I, 10.2.J, 10.3.A and 10.3.B.

Applicants who have successfully completed our course, need not present completed "Task Control Sheets" for those assessments in application of STCW certification."

Scope
This course is intended to meet training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigational Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Please be prepared for class with the following:

- No extra class material required

Simulators and Training Tools
Kongsberg Desktop models Slow Speed Diesel MAN MC90, Medium Speed Diesel Colt Pielstick M22, SP 25 Steam Propulsion Plant, and DEIII Diesel Electric Power Plant.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

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Search and Rescue (Management Level) (STRCTR-445)

Length 2 days

Objective
This course is intended to meet the Search and Rescue training requirements of 46 CFR 11.305(a)(3)(v) and 11.307(a)(3)(v) for STCW endorsements as Chief Mate or Master on vessels of 3,000 GT or more and 46 CFR 11.311(a)(3)(v) and 11.313(a)(3)(v) for STCW endorsements as Chief Mate or Master on vessels of more than 500 GT and less than 3,000 GT. The practical assessments conducted in this course are the equivalent of the following assessment from the National Assessment Guidelines for Table A-II/2 of the STCW Code as amended: Task 4.1B.

Each student who successfully completes this course will be knowledgeable and proficient in Search and Rescue operations and Requirements. Additionally, students will gain knowledge of:

- **The International Aeronautical and Maritime Search and Rescue Manual Volume III**
  - Search & Rescue Overview
  - Rendering Assistance
  - On Scene Coordination
- **AMVER**

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Search & Rescue (Management Level) (STRCTR-445)* course will satisfy: The Search & Rescue training requirements of 46 CFR 11.305(a)(3)(v) and 11.307(a)(3)(v) for STCW endorsement as Master or Chief Mate on vessels of 3,000 GT (ITC) or more (Management Level); AND The Search & Rescue training requirements of 46 CFR 11.311(a)(3)(v) and 11.313(a)(3)(v) for STCW endorsement as Master or Chief Mate on vessels of 500 GT(ITC) or more and less than 3,000 GT (ITC) (Management Level), AND The Search & Rescue training requirements of 46 CFR 11.315(a)(3)(i) for STCW endorsement as Master of vessels of less than 500 GT (ITC) (Management Level); AND The Search & Rescue standards of competence required by 46 CFR 11.305(a)(2),11.307(a)(2), 11.311(a)(2), 11.313(a)(2) and 11.315(a)(2); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 10-14(Ch-4), 11-14(Ch-4) and 03-18(Ch-2) Task 4.1. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This is a bridge simulator course that is intended to meet the Search and Rescue training requirements for raise of grade to Chief Mate (management level) as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Full Mission Simulator

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

Teaching Facility
STAR Center, Dania Beach, Florida

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V. DECK OICNW – OFFICER IN CHARGE OF A NAVIGATIONAL WATCH

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Meteorology (Operational Level) (STRCTR-316)

Length 5 days

Objective
The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to Basic Meteorology and in doing so, satisfy company, national and international regulations for candidates for certification as second mate or third mate as follows:

STCW Code A-II/1; USCG 46 CFR 11.309(a)(4)(xiii)

- Meteorology

Upon completion of this course, the students will be knowledgeable and proficient in the theory of:

- Meteorological Instruments on ships
- Atmospheric Properties
- Atmospheric Pressure
- Wind
- Clouds and Precipitation
- Visibility
- Climatology
- Weather Systems
- Weather Observation and Reporting
- Weather Forecasting
- Weather Routing and Services

This Course is USCG Approved and STCW Compliant. The course certificate will state:

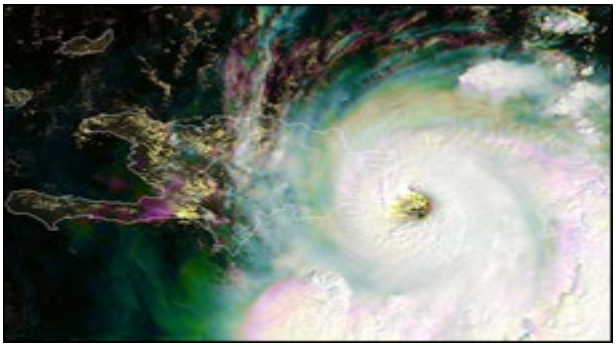
"Any applicant, who has successfully completed our *Meteorology (Operational Level) (STRCTR-316)* course will satisfy: The Meteorology training requirements of 46 CFR 11.309(a)(4)(xiii) for an STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) for vessels of 500 GT (ITC) or more (Operational Level); AND The Meteorology standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from: NVIC 12-14(Ch-5) Tasks 1.9, 1.10, and 1.11; AND NVIC 02-18(Ch-3) Tasks 1.9.A, 1.9.B, 1.10.A, 1.10.B,1.10.C,1.10.D,1.10.E,1.10.F, and 1.10.G; AND The Meteorology standards of competence required by 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010 meeting the National Assessment Guidelines from NVIC 13-14(Ch-4) Tasks 1.11.A, 1.12.A., and 1.13.A. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
The course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Student should be documented as an able seaman or have an equivalent and experiential background of three years or more as well as the following:

- In good physical health.
- Speak and understand English.

Teaching Facility
STAR Center, Dania Beach, Florida



Basic Shiphandling (STRCTR-71)

Length 5 days

Objective
The objective of the course is to provide the student with detailed knowledge to support the training outcomes related to navigation at the operational level and in doing so satisfy company, national, and international regulations for candidates for certification as second mate or third mate as follows:

STCW Code A-II/1;
- Maneuvering the Ship
- Steering and Control Systems

USCG 46 CFR 11.309(a)(4)(xi);
- Basic Shiphandling
- Steering and Control Systems

Upon completion of this course the student will be knowledgeable and have simulator proficiency enabling them to pass the simulator assessments in the following areas:

- Maneuvering ships in differing conditions and situations
- Steering control systems

This Course is USCG Approved and STCW Compliant. The course certificate will state:
"Any applicant who successfully completes our *Basic Shiphandling (STRCTR-71)* course will satisfy: The Basic Shiphandling & Steering Control Systems training requirements of 46 CFR 11.309(a)(4)(xi) for an STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) for vessels of 500 GT (ITC) or more (Operational Level); AND The Basic Shiphandling & Steering Control Systems standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/I and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-5) and 02-18(Ch-3) Tasks 1.8.A, 1.8.B, 9.1.A, 9.2.A, 9.2.B, 9.3.A, 9.4 [NVIC 12-14(Ch-5) only], 9.4.A [NVIC 12-18(Ch-3) only], and 9.5.A; AND The Basic Shiphandling & Steering Control Systems standards of competence required by 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines form NVIC 13-14(Ch-4) Tasks 1.10.A, 1.10.B, 1.10.C, 1.10.D, 5.1.A, 5.1.B, 5.1.C, and 5.3.A. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Full Mission Simulator

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Students should be documented as able seaman, or at least be following an approved program of shipboard training, or have an equivalent and experiential background of three years or more as well as the following:

- In good physical health.
- Speak and understand English.

Teaching Facility
STAR Center, Dania Beach, Florida

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Cargo Handling & Stowage (Operational Level) (STRCTR-100)

Length 5 days

Objective

The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to cargo handling and stowage at the Operational Level and in doing so, satisfy company, national and international regulations for candidates for certification as second mate or third mate as follows:

STCW Code A-II/1;

- Monitor the loading, stowage, securing, care during the voyage and the unloading of cargo
- Inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks

USCG 46 CFR 11.309(a)(4)(x);

- Cargo handling and stowage

Upon completion of this course, the students will be knowledgeable and will have demonstrated a proficiency in the theory of:

1. The effect of cargo, including heavy lifts on the sea worthiness and stability of the ship
   - Draught, trim and stability
   - Securing cargoes
   - Deck cargo
   - Container cargo
   - Bulk cargo
   - Bulk grain cargo
2. Safe handling, stowage and securing of cargoes
   - Cargo care
   - Dangerous, hazardous and harmful cargoes
   - Cargo handling equipment and safety
   - Oil tanker piping and pumping arrangements
   - Precautions before entering enclosed or contaminated spaces
   - Cargo calculations and cargo plans
3. Inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks
   - Cargo spaces inspection
   - Hatch covers inspection
   - Ballast tanks inspection
   - Damage report
   - Enhanced survey program

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Cargo Handling & Stowage (Operational Level) (STRCTR-100)* course will satisfy: The Cargo Handling and Stowage Training requirements of 46 CFR 11.309(a)(4)(x) for an STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) for vessels of 500 GT (ITC) or more (Operational Level); AND The Cargo Handling & Stowage standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from: NVIC 12-14(Ch-5) Tasks 10.2.A, 10.3.A, 11.1.A, 11.2, 11.4.A, 11.5, 11.6, AND 11.7; AND NVIC 02-18(Ch-3) Tasks 10.2.A, 10.3.A, 11.1.A, 11.2.A, 11.3.A, 11.4.A, 11.5.A, and 11.6.A; AND The Cargo Handling and Stowage standards of competence required by 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 13-14(Ch-4) Tasks 6.1.A and 6.1.B. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope

This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools

Task/Desk Top Simulation

Entry standards

The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Students should have successfully completed Radar Observer course, be documented as an able seaman or at least be following an approved program of shipboard training or have an equivalent and experiential background of three years or more as well as the following: in good physical health and speak and understand English



Teaching Facility

STAR Center, Dania Beach, Florida.

*May also be offered in online format. Please contact Student Services for more info.

Celestial Navigation (Operational Level) (STRCTR-114)

Length 10 days (excludes weekends)

Objective

The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to Celestial Navigation at the Operational Level and in doing so, satisfy company, national and international regulations for candidates for certification as second mate or third mate as follows:

STCW Code A-II/1;

USCG 46 CFR 11.309(a)(4)(viii);

- Celestial navigation

Upon completion of this course, the students will be knowledgeable and proficient in the following areas:

- Nautical Astronomy
- The Nautical Almanac
- Sextant and Altitude Corrections
- Time of Sunrise and Sunset
- Meridian Transit
- Identification of Stars and Planets
- Position Fixing

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Celestial Navigation (Operational Level) (STRCTR-114)* course will satisfy:

- The Oceans Navigation examination requirements of: "Navigation General Oceans, and Navigation Problems: Oceans"
- For increasing the scope of an endorsement from near coastal to oceans for the following National Deck Officer Endorsements if completed within one year of application:
  - Second or Third Mate of self-propelled vessels of unlimited tonnage
  - Master or Mate of self-propelled vessels of less than 1600 GRT
  - Master or Mate of self-propelled vessels of less than 500 GRT
  - Master or Mate of self-propelled vessels of less than 200 GRT
  - Towing Vessel Endorsements;
  - Master or Mate of Uninspected Fishing Industry Vessels;
  - Master (OSV), Chief Mate (OSV), or Mate (OSV) of offshore supply vessels; AND
- The Celestial Navigation training requirements of 46 CFR 11.309(a)(4)(viii) for an STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) for vessels of 500 GT (ITC) or more (Operational Level); AND
- The Celestial Navigation standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-7) and 02-18(Ch-5) Tasks 1.1.A, 1.1.B, 1.1.C, 1.1.D, 1.1.E, 1.1.F, 1.2.A, 1.2.B and 1.2.C .

This course does not satisfy the Terrestrial Navigation or Electronic Navigation training requirements of 46 CFR 11.309(a)(4)(viii). Applicants who have completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope

This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry Standards

The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Students should have STCW certification as an "Officer-in-Charge of a Navigation Watch" or be following an approved program of shipboard training, or have an equivalent and experiential background, as well as the following:

- In good physical health.
- Speak and understand English.

Teaching Facility

STAR Center, Dania Beach, Florida



Electronic Navigation (STRCTR-181)

Length 5 days

Objective
The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to Electronic Navigation at the Operational Level and in doing so, satisfy company, national and international regulations for candidates for certification as second mate or third mate as follows:

STCW Code A-II/1;
- Electronic systems of position fixing and navigation
- Echo-sounders

USCG 46 CFR 11.309(a)(4)(viii);
- Electronic navigation systems

Upon completion of this course, the students will be knowledgeable and have demonstrated a proficiency in the theory of:
- GPS
- Echo sounders
- Speed logs
- Radar navigation
- ECDIS
- Navigational software

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Electronic Navigation (STRCTR-181)* course will satisfy:
- The Electronic Navigation training requirements of 46 CFR 11.309(a)(4)(viii) for an STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) for vessels of 500 GT (ITC) or more (Operational Level); AND
- The Electronic Navigation standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-4) and 02-18(Ch-2) Tasks 1.4.C, 1.4.D, and 1.5.A; AND
- The Electronic Navigation standards of competence required by 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 13-14(Ch-3) Tasks 1.8.C, 1.8.D, and 1.8.E.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Blind bridges/radar bridges

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Students must successfully complete an approved Radar Observer course, be documented as an able seaman or at least be following an approved program of shipboard training or have an equivalent and experiential background of three years or more and the following:
- In good physical health.
- Speak and understand English.



Teaching Facility
STAR Center, Dania Beach, Florida

Emergency Procedures & SAR (Operational Level) (STRCTR-184)

Length 4 days

Objective

The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to respond to emergencies and search and rescue at the Operational Level and in doing so, satisfy company, national and international regulations for candidates for certification as second mate or third mate as follows:

STCW Code A-II/1;

- Respond to Emergencies
- Respond to Distress Signal at Sea

USCG 46 CFR 11.309(a)(4)(iii);

- Search and Rescue

Upon completion of this course, the students will be knowledgeable and have demonstrated a proficiency in the theory of:

- Contingency plans for response to emergencies
- Protection and safety of passengers
- Precautions to be taken when beaching a vessel
- Actions to be taken on stranding
- Actions to be taken following a collision
- Means of limiting damage and salving the ship following a collision
- Procedure for abandoning ship
- Use of auxiliary steering gear
- Rescue of persons
- Emergencies in port
- Assisting a vessel in distress
- Search and Rescue

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who successfully completes our *Emergency Procedures & SAR (STRCTR-184)* course will satisfy: The Emergency Procedures standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3) for STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) (Operational Level); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-5) and 02-18(Ch-3) Tasks 5.1.A, 5.2.A, and 5.3.A; AND The Search & Rescue training requirements of 46 CFR 11.309(a)(4)(iii) for STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) for vessels of 500 GT (ITC) or more (Operational) Level); AND The Search & Rescue standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 12-14(Ch-5) Task 6.1 and NVIC 02-18(Ch-3) Task 6.1.A. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

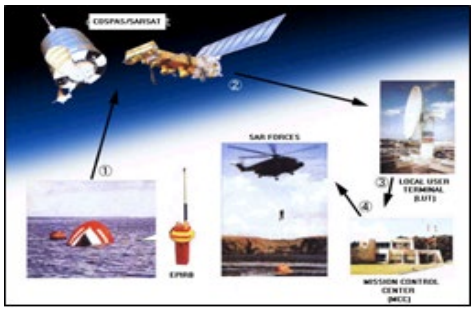
Scope

This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry Standards

The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Student should be documented as an able seaman or at least be following an approved program of shipboard training or have an equivalent and experiential background of three years or more as well as the following:

- In good physical health.
- Speak and understand English



Teaching Facility

STAR Center, Dania Beach, Florida
*May also be offered in online format. Please contact Student Services for more info.

Magnetic & Gyro Compasses (Operational Level) (STRCTR-262)

Length 3 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Magnetic & Gyro Compasses. Additionally, students will gain:

Knowledge of the principles of magnetic and gyro-compasses

- Ability to determine errors of the magnetic and gyro-compasses, using celestial and terrestrial means, and to allow for such errors

Knowledge of steering control systems, operational procedures and change-over from manual to automatic control and vice versa.

- Adjustment of controls for optimum performance.

This Course is USCG Approved. The course certificate will state:

"Any applicant who has successfully completed our *Magnetic & Gyro Compasses (STRCTR-262)* course will satisfy:

- The requirements of 46 CFR 11.309 for meeting the standard of competence for compasses, magnetic and gyro, in Table A-II/1 for an STCW endorsement as Officer in Charge of a Navigational Watch on vessels of 500 or more gross tonnage (ITC); AND
- The requirements of 46 CFR 11.317 for meeting the standard of competence for Compasses, magnetic and gyro, for Table A-II/3 of the STCW Code, as amended, for certification as a Master on Vessels Less than 500 GT Limited to Near Coastal Waters; AND
- The requirements of 46 CFR 11.319 for meeting the standard of competence for compasses, magnetic and gyro, in Table A-II/1 for STCW endorsement as Officer in Charge of a Navigational Watch on vessels of less than 500 GT; AND
- The requirements of 46 CFR 11.321 for meeting the standard of competence for compasses, magnetic and gyro, in Section A-II/3 for OICNW on Vessels of Less than 500 GT Limited to Near Coastal Waters, and the Specific tasks from NVIC 13-14(Ch-2); 1.9.A; 1.9.B; and 1.9.C. AND
- The following practical assessments performed during the course have been determined to be equivalent of National Assessment Guidelines Tasks, as documented in NVIC 12-14(Ch-3): 1.6.A, 1.6.B, 1.6.C, 1.6.D, 1.7.A, 1.7.B, 1.7.C; AND
- NVIC 01-17(Ch-2): 1.6.A., 1.6.B, 1.6.C, 1.6.D, 1.7.B; AND
- NVIC 02-18: 1.6.A, 1.6.B, 1.6.C, 1.6.D.

Applicants who have successfully completed our need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and Course Certificate section.

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Student must be documented as an able seaman or at least be following an approved program of shipboard training or have an equivalent and experiential background as well as the following:

- In good physical health.
- Speak and understand English.



Teaching Facility
STAR Center, Dania Beach, Florida

Stability and Ship Construction (STRCTR-450)

Length 5 days

Objective
The objective of the course is to provide the student with detailed knowledge to support the training outcomes related to stability and ship construction at the Operational level and in doing so, satisfy company, national, and international regulations for candidates for certification as second mate or third mate as follows:

STCW Code A-II/1;

- Monitor the loading, stowage, securing, care during the voyage and the unloading of cargo
- Inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks
- Maintain seaworthiness of the ship

USCG 46 CFR 11.309(a)(4)(xii);

- Stability and ship construction

Upon completion of this course, the students will be knowledgeable and have demonstrated a proficiency in the theory of:

- Ship Construction
- Basic Stability

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who successfully completes our *Stability and Ship Construction (STRCTR-450)* course will satisfy: The Stability and Ship Construction training requirements of 46 CFR 11.309(a)(4)(xii) for an STCW endorsement as Officer in Charge of a Navigation Watch (OICNW) on vessels of 500 GT (ITC) or more (Operational Level); AND The Stability and Ship Construction standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from: NVIC 12-14(Ch-5) Tasks 10.1, 11.3, 13.1, 13.2, 13.3, and 13.4; AND NVIC 02-18(Ch-3) Tasks 10.1.A, 11.3.A, 13.1.A, 13.2.A, 13.3.A, and 13.4.A; AND The Stability and Ship Construction standards of competence required by 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 13-14(Ch-4) Tasks 8.1.A; 8.2.A; 8.3.A; and 8.4.A. Applicants who have successfully completed your course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Task/Desk Top Simulation

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Students should be documented as able seaman, or at least be following an approved program of shipboard training, or have an equivalent and experiential background of three years or more, as well as the following:

- In good physical health.
- Speak and understand English.

Teaching Facility
STAR Center, Dania Beach, Florida

Terrestrial & Coastal Navigation (STRCTR-512)

Length 10 days (excludes weekends)

Objective

The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to terrestrial and coastal navigation and in doing so, satisfy company, national and international regulations for candidates for certification as second mate or third mate as follows:

STCW Code A-II/1; USCG 46 CFR 11.309(a)(4)(viii);

- Terrestrial Navigation

Upon completion of this course, the students will be knowledgeable and have demonstrated a proficiency in the theory of:

- Plan and Conduct a passage and determine position;
- Terrestrial and Coastal Navigation;
- Charts;
- Magnetic compass deviation and variation
- Compass Correction
- Position Plotting
- The Sailings
- Tides and Currents
- Chart Work

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Terrestrial & Coastal Navigation (STRCTR-512)* course will satisfy

- The Terrestrial Navigation training requirements of 46 CFR 11.309(a)(4)(viii) for an STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) for vessels of 500 GT (ITC) or more (Operational Level): AND,
- The Terrestrial & Coastal Navigation standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-5) and 02-18(Ch-3) Tasks 1.2.A, 1.2.B, 1.2.C, 1.3.A, 1.3.B, 1.3.C, 1.4.A, 1.4.B, 1.6.A, 1.6.B, 1.6.C, 1.6.D, 1.7.A [1.7B, 1.7.C, NVIC 12-14 (Ch-5) only], 1.7.D, 1.7.E and 1.7.F; AND
- The Terrestrial & Coastal Navigation standards of competence required by 46 CFR 11.317(a)(2) and 11.321 (a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 13-14(Ch-4) Tasks 1.1.A, 1.2.A, 1.3.A, 1.4.A, 1.4.B, 1.4.C, 1.8.A, 1.8.B, 1.8.C, 1.9.A, 1.9.B, and 1.9.C. This course does not satisfy the Electronic Navigation or Celestial Navigation training requirements of 46 CFR 11.309(a)(4)(viii).

Applicants who have successfully completed our course need not present completed Task Control Sheets for these assessments in application for STCW certification."

Scope

This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

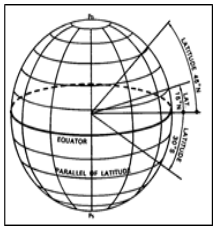
Simulators and Training Tools

Full Mission Simulator

Entry Standards

The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Students should be documented as able seaman, or at least be following an approved program of shipboard training, or have an equivalent and experiential background of three years or more, as well as the following:

- In good physical health.
- Speak and understand English.



Teaching Facility

STAR Center, Dania Beach, Florida

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Watchkeeping (Operational Level) (STRCTR-548)

Length 10 days (excludes weekends)

Objective
Each student who successfully completes this course will be knowledgeable and proficient in watchkeeping at the operational level. Additionally, students will gain an understanding of fundamental principles of COLREGS and Bridge Teamwork Procedures. Upon completion of this course, the students will be knowledgeable and demonstrate proficiency in the following areas: Voyage Planning, COLREGS, Safe Watchkeeping, Bridge Teamwork Procedures, Standard Maritime Communication Phrases and Pollution Prevention. This course is a comprehensive course designed for watchkeeping, COLREGS, Standard Marine Communication Phrases and Bridge Resource Management. The assessments specified in this course are from NVIC 12-14 which differ from those previously specified in Policy Letter 11-07.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Watchkeeping (Operational Level) (STRCTR-548)* course will satisfy the following requirements:

- The Watchkeeping, including COLREGS and Standard Marine Communication Phrases (SMCP), training requirements of 46 CFR 11.309(a)(4)(ix) and 11.319(a)(4)(iii) for STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) (Operational Level); AND
- The Bridge Resource Management training requirements of 46 CFR 11.309(a)(4)(vii), 11.319(a)(4)(vii), and 11.321(a)(3)(iv) for an STCW endorsement as Officer in Charge of a Navigational Watch (OICNW) (Operational Level); AND
- The Watchkeeping, including COLREGS and SMCP, standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-5) and 02-18 (Ch-3) Tasks 2.1.A, 2.1.B, 2.1.C, 2.1.D, 2.1.E, 2.1.F, 2.1.G, 2.2.A, 2.2.B, 2.2.C, 2.2.D, 2.2.E, 2.3.A, 2.3.B, 2.3.C, 2.4.A, 2.5.A, 2.6.A, and 7.1; AND
- The Bridge Resource Management standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-5) and 02-18(Ch-3) Tasks 2.7.A, 2.7.B, 2.7.C, 2.7.D, 2.7.E, 2.7.F, and 2.7.G; AND
- The Bridge Resource Management standards of competence required by 46 CFR 11.321(a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010; AND
- The Pollution Prevention and International Conventions standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-5) and 02-18(Ch-3) Tasks 12.1.A, 12.2.A,12.3.A and 17.1.A.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for assessments in application for STCW certification."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Full Mission Simulator

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard and STCW as amended. Students should be documented as able seaman, or at least be following an approved program of shipboard training or have an equivalent and experiential background of three years or more, as well as the following: in good physical health and speak and understand English.

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STAR Center, Dania Beach



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VI. ORIGINAL ENTRY AND RATINGS COURSES

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Marlinspike Seamanship (STRCTR-280)

Length 1 day

Objective
Upon completion of the course the student will have successfully demonstrated knowledge of and ability to make the principal knots, bends, splices, and hitches in common use by Able Seaman.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Marlinspike Seamanship (STRCTR-280)* course and who presents their Certificate of Training within one year of the completion of training, will satisfy the Marlinspike Seamanship demonstration requirements of 46 CFR 12.405(c) for any national rating endorsement as Able Seaman."

Scope
This course is intended to meet training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is intended to meet training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Teaching Facility
STAR Center, Dania Beach, Florida

Rating Forming Part of a Navigation Watch Assessment (STRCTR-412)

Length 1 day

Objective
Participants successfully completing this course should be capable of undertaking all of the responsibilities of the support level of a navigational watch. The package will address the following skills:

- The practical assessment exercises as laid out in the RFPNW control sheets

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Rating Forming Part of a Navigation Watch Assessment (STR-412)* course will have satisfied the 46 CFR 12.05-3 (c), and the section A-II/4, paragraph 3 and Table A-II/4 of the STCW Code, As Amended, assessment requirements for Ratting forming Part of a Navigational Watch, for the following assessments: RFPNW-1-1A, RFPNW-1-1B, RFPNW-1-1C, RFPNW-1-2A, RFPNW-1-2B, RFPNW-1-2-C, RFPNW-1-2D, RFPNW-1-2E, RFPNW-1-2F, RFPNW-1-2G RFPNW-1-2H, RFPNW-1-2I, RFPNW-1-2J, RFPNW-1-3A, RFPNW-1-3B, RFPNW-2-1A, RFPNW-2-1B, RFPNW-2-2A, RFPNW-3-1A, RFPNW-3-1B,and RFPNW-3-2A. Any Instructor approved to teach this course is authorized to sign the mariner's assessment control sheet certifying a successful demonstration.

Applicants who have successfully completed this course need not present completed "Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Full Mission Simulator

Entry standards
Student minimum prerequisites are:

- At least 18 years of age.
- Speak and understand the English language.
- Hold a valid Merchant Mariner Document.
- Hold a Proficiency in Survival Craft certificate.
- Hold a Marlinespike Seamanship certificate.
- Hold a valid Able Seaman course certificate.
- Be medically fit.
- Hold a valid STCW certificate for all elements of Basic Safety Training issued within the past five years.
- Received approval by the USCG to examine for the Able Seaman / Lifeboat Endorsement, or
- Met the sea service requirements for an application for an Able Seaman / Lifeboatman Endorsement

Teaching Facilities
STAR Center, Dania Beach, Florida

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VII. RADAR COURSES & ELECTRONIC NAVIGATION

Automatic Radar Plotting Aids (ARPA) (STRCTR-37)

Length 4 days

Objectives
The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to ARPA and in doing so, satisfy company, national and international regulations for candidates for certification as second mate or third mate as follows:

- STCW Code A-II/1 and A-II/2

Upon completion of this course, the students will be knowledgeable and proficient in the following areas:

- Fundamentals of radar and ARPA theory;
- Integration of AIS;
- Interpret and analyze information obtained from radar
- Demonstrate radar/ARPA use
- Describe principal types of ARPA, their display characteristics, performance standards and the dangers of overreliance on ARPA
- Operate, interpret and analyze information obtained from ARPA

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed *our Automatic Radar Plotting Aids (ARPA) (STRCTR-37)* course will satisfy the ARPA training requirements of the following:

- 46 CFR 11.305(a)(3)(vi), 11.307(a)(3)(vi), 11.309(a)(4)(xiv), 11.311(a)(3)(viii), 11.313(a)(3)(viii), 11.315(a)(3)(v), 11.317(a)(3)(vii), 11.319(a)(4)(viii), 11.321(a)(3)(vii); AND the ARPA standards of competence required by:
- 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-7) and 02-18(Ch-5) Tasks 3.5.A and 3.6; AND
- 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311(a)(2), 11.313(a)(2), and 11.315(a)(2); STCW Code Section A-II/2 and Table AII/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 10-14(Ch-5), 11-14(Ch-5), and 03-18(Ch-4) Task 5.1.

Applicants who have successfully completed this course need not present "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Blind bridges/radar bridges

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

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Electronic Chart Display Information Systems (ECDIS)
(STRCTR-179)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in EDIS. Additionally, students will gain knowledge of:

- The basic principles governing the safe operation of ECDIS (or ECS), including electronic chart data and their presentation, performance standards, as well as the system-related limitations and potential dangers;
- The ability to generate and maintain displays, to operate all basic navigational functions for route planning as well as route monitoring, to use and select proper navigational data and to display the data in the appropriate manner. They will also be able to perform updating;
- The ability to analyze nautical alarms during route planning and route monitoring as well as sensor alarms. They will be able to assess the impact of the performance limits of sensors on the safe use of ECDIS and to appreciate that the back-up system may be only of limited performance. They will be able to assess errors, inaccuracies and ambiguities caused by improper data management. Thus, the student will be aware of errors in displayed data, errors of interpretation and the risk of over-reliance on ECDIS and be able to take proper action.
- In addition, the student will have knowledge of the various types of electronic chart databases available, realize their legal aspects and standing with regard to use in ECDIS or other electronic chart systems.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Electronic Chart Display Information System (ECDIS) (STRCTR-179)* course will satisfy the ECDIS training requirements of 46 CFR 11.305(a)(3)(vii), 11.307(a)(3)(vii);11.309(a)(4)(xvi); 11.311(a)(3)(vii);11.313(a)(3)(vii);11.315(a)(3)(iv);11.317(a)(3)(v); 11.319; (a)(4)(x) and 11.321(a)(3)(v); AND the ECDIS standards of competence required by:

- 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-7) and 02-18(Ch-5) Tasks 4.1 and 4.2; AND
- 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311(a)(2) and 11.315(a)(2); STCW Code Section A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 10-14(Ch-5), 11-14(Ch-5), and 03-18(Ch-4) Tasks 6.1 – 6.7; AND
- 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 13-14(Ch-5) Task 1.7.A.

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This is a classroom course that is intended to meet the ECDIS training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Simulators and Training Tools
Blind bridges/radar bridges

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigational Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

Electronic Navigation and Watchkeeping Refresher

Length 3 days

Objective
The purpose of this course is to provide mariners a refresher in the requirements and responsibilities of using electronic navigation equipment and its integration in the navigational watchkeeping functions on the bridge addressing better utilization of the navigational equipment on a bridge.

Scope
Each student who successfully completes this course will be knowledgeable and proficient in the effective use of bridge electronic navigation equipment. Additionally, students will have the opportunity to review:

- ECDIS basic navigational functions and parameter settings
- ECDIS route planning and monitoring skills
- Radar, ARPA and AIS skills
- Watchkeeping and BRM skills

The course will review best practices through practical exercises both in the classroom and with multiple ownship scenarios in the bridge simulators using plans created in the classroom where each student will have desktop simulation including ECDIS.

Given the nature of multi-ownship and multi-team interactive exercises in the bridge simulators, the course also will provide the opportunity to review and discuss watchkeeping and bridge resource management principles and best practices.

Simulators and Training Tools
Blind Bridges/radar bridges

Entry standards
This course is open to students who have previously taken Radar, ARPA and ECDIS courses and have a need for such training. Each student should have an STCW Certification as an “Officer-in-Charge of a Navigational Watch” or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida



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Radar Observer Recertification (STRCTR-402)

Length 1 day

Objective

Successful completion of this course will enable any holder of an existing Radar Observer (Unlimited) to renew that endorsement for an additional five-year period from that date of completion. Specifically, this course covers the training requirements for persons seeking a renewal of their existing Radar (Unlimited) endorsement, which includes the following knowledge, understanding and proficiency:

1. Interpretation and analysis of radar information including:
   (a) Radar navigation (including visual techniques) – determining positions, and detecting changes in the relative motion, of other vessels.
   (b) Collision-avoidance, including visual techniques, appropriate to the circumstances and the equipment in use.
   (c) Determining the course and speed of another vessel
   (d) Determining the time and distance of closest point of approach of a crossing, meeting, overtaking, or overtaken vessel.
   (e) Detecting changes of course or speed of another vessel after its initial course and speed have been established.
   (f) Applying the Navigational Rules, and other factors to consider when determining changes of course or speed of a vessel to prevent collisions on the basis of radar observation.
   (g) Use of radar in maintaining situational awareness

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Radar Recertification (STRCTR-402)* course will satisfy the training requirements of 46 CFR 11.480(f) for renewal of a Radar Observer endorsement."

Scope

This course is to provide the training required by government agencies to those mariners who are sailing onboard Automatic Radar Plotting Aids (ARPA) equipped vessels.

Simulators and Training Tools

Blind bridges/radar bridges

Entry standards

This course is open to all seafarers that possess a current Radar (Unlimited) endorsement and need to renew that endorsement prior to its expiration.

Teaching Facility

STAR Center, Dania Beach, Florida

Radar Observer (Unlimited) (STRCTR-399)

Length 5 days

Objective
To provide students with the detailed knowledge to support the training outcomes related to radar and in doing so, satisfy company, national and international regulations for candidates for certification as second mate or third mate as follows:

- STCW Code A-II/1

Upon completion of this course, the students will be knowledgeable and proficient in the following areas:

1. Basic radar theory;
2. Purpose and function of the main components that comprise a typical shipboard marine radar installation;
3. Radar performance including:
   a) factors affecting performance and accuracy.
   b) setting up and maintaining displays
   c) detection of misrepresentation of information, false echoes, sea return, weather, racons, SARTS, etc.
4. Radar use including:
   a) range and bearing; course and speed of other ships; time and distance of closest approach of crossing, meeting and overtaking ships.
   b) identification of critical echoes; detecting course and speed changes of other ships; effect of changes in own ship's course or speed or both.
   c) application of the International Regulations for Preventing Collisions at Sea.
   d) Plotting techniques and relative and true motion concepts.
   e) parallel indexing.
   f) fixing the navigational position of own ship.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Radar Observer (Unlimited) (STRCTR-399)* course, will satisfy: The radar observer training requirements of 46 CFR 11.480(d) for an endorsement as Radar Observer (Unlimited); AND the radar observer training requirements of 46 CFR 11.309(a)(4)(ii), 11.317(a)(3)(vi), 11.319(a)(4)(ii), and 11.321 (a)(3)(vi); AND the radar observer standards of competence required by 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code Section A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-6) and 02-18(Ch-3) Tasks: 1.4.A, 1.4.B, 3.1., 3.2.A, 3.2.B, 3.3.A, and 3.4; AND the radar observer standards of competence required by 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code Section A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 13-14(Ch-4) Tasks 1.8.A and 1.8.B. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Simulators and Training Tools
Blind bridges/radar bridges



Scope
This course is intended to meet the training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have relevant and appropriate seagoing bridge experience and in the process of obtaining a USCG national license or STCW Certification as an "Officer-in-Charge of a Navigation Watch", be in good physical health and speaks and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

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VIII. ENGINEERING COURSES

Basic Electricity (STRCTR-52)

Length 10 days (excludes weekends)

Objective
Week 1 covers requirements of the 46 CFR 11.950 and the 1995 STCW Convention Chapter III, Section A-III/1. It provides the detailed knowledge to support the training outcomes related to Electrical, Electronic and Control Engineering at the Operational Level, as well as the practical skills required in control sheets OICEW-3-1A, OICEW-3-1B, OICEW-3-1C and OICEW-3-1D. Subjects covered include Basics of Electricity, Magnetism, Electrical Circuits, Resistors, Ohm's Law, Kirchoff's Laws, Power, Batteries, Lighting Systems, Protective and Control Devices.

Week 2 covers requirements of the 46 CFR 11.9520 and the 1995 STCW Convention Chapter III, Section A-III/1. It provides the detailed knowledge to support the training outcomes related to Electrical, Electronic and Control Engineering at the Operational Level, as well as the practical skills required in control sheets OICEW-7-1A, 1B, 1C,1D and1E. Subjects covered include AC Theory, AC Reactive Components and Power, AC Generators, Voltage Regulators, AC Motors, Transformers, Semiconductors and Logic Gates.

This Course is USCG Approved and STCW Compliant. The course certificate will state:
"Any applicant who has successfully completed our *Basic Electricity (STRCTR-52)* course will satisfy the following specific TASKs from the National Assessment Guidelines for Officer in Charge of an Engineering Watch NVIC 17-14: TASKs 7.1.A; 7.2.A; 7.2.B; and 7.3.A Applicants who have successfully completed this course need not present completed "Control Sheets" for these assessments in application for STCW certification. This course does not satisfy the Electrical Machinery and Basic Electronics training requirement of 46 CFR 11.329(a)(4)(x)."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is intended for candidates for certification as officers in charge of the engineering watch OICEW in a manned engine room or designated duty engineers in a periodically unmanned engine room. The candidates must be approved by the United States Coast Guard to apply for such certification.

Please be prepared for class with the following:
- No extra class material required

Simulators and Training Tools
Course equipment:
For practical exercises we will use the TINA Simulation Software and the following AMATROL electrical simulation equipment.
- AMATROL T7017 AC/DC Electrical Learning Simulator
- AMATROL 85-MT2 Electrical Machines Simulator
- AMATROL 85-MT2-B DC Generators
- AMATROL AC Motors and Generators Simulator
- AMATROL AC Motor Starters Simulator

For the Practical Assessments we will use the MC90 Kongsberg Full Mission Simulator.

Teaching Facility
STAR Center, Dania Beach, Florida

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Control Systems Troubleshooting (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved electrical and controls troubleshooting skills in STAR Center's electrical laboratory.

This Course is intended for Professional Development

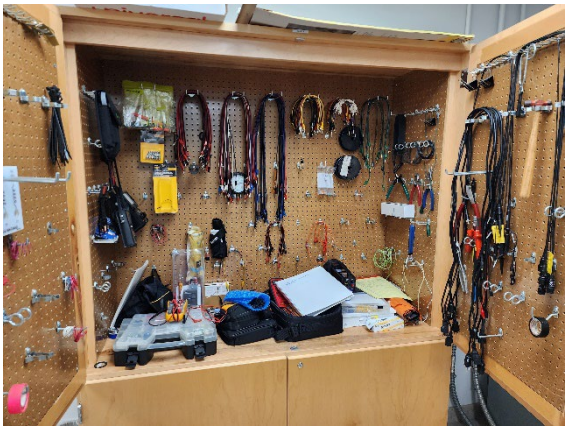
Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to refine troubleshooting skills directed towards control systems including but not limited to: automation, PID tuning, PLCs, and other electrical components. Applying this knowledge, students will demonstrate the practical application of the above-mentioned skills. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:
"*Student Name* has successfully completed the one-week Control Systems Troubleshooting – Professional Development Course and has received instruction and demonstrated troubleshooting skills in the following disciplines: automation, PID tuning, PLCs and other electrical components."

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed shoes

Teaching Facilities
STAR Center, Dania Beach, Florida





Diesel Crossover (Endorsement) (STRCTR-158)

Length 20 days (excludes weekends)

Objective
The terminal objective of this course is that given the information provided specific to Diesel Propulsion, a steam vessel-endorsed USCG licensed engineer for unlimited horsepower shall be able to successfully test for the addition of an endorsement for unlimited motor vessels at the same license level they currently hold.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Diesel Crossover (Endorsement) (STRCTR-158)* course will satisfy the following:

- The requirements of 46 CFR 11.502(b)(4) for adding the Motor endorsement to the level of the current Steam or Gas Turbine endorsement.
  OR
- Receive 60 days sea service credit towards upgrading an unlimited third assistant (Motor) engineer license to an unlimited second assistant (Motor) engineer license. This course may not be used to satisfy recency requirements; AND
- The Motor Plants training requirements of 46 CFR 11.329 (a)(4)(ix); AND
- The Motor standards of competence required by 46 CFR 11.325(a)(2);
- STCW Code Section A-III/2 and Table A-III/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 15-14(Ch-6) Tasks 1.1.A, 1.1.B, 1.1.C, 1.1.D, 3.1.A and 7.1.A; AND
- The Motor Plants standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 17-14(Ch-7) Tasks 4.2.C, 4.3.C, 4.3.F, 4.3.I, 4.3.M, 4.3.N, 4.3.O, 4.3.P, 4.3.Q, 4.3.R, 4.3.S, 5.1.A, 5.2.A, 5.2.B, 5.2.C, 5.2.D, 5.2.E, 5.3.A, 6.1.B, 6.1.D, 7.5.B, 8.3.A, 10.1.A and 10.1.B.

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification.
This course may be used for only one application towards sea time credit OR Motor endorsement cross-over and may not be used for subsequent raise in-grade or cross-over applications. For Motor endorsement crossover, the applicant must also take the Increase in Scope exam at a USCG REC; the examination requirements are not met by this course."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a current unlimited USCG license with a Steam vessel endorsement. Each student shall be in good physical health and have the ability to comprehend both written and oral communication in the English language.

Please be prepared for class with the following:

- No extra class material required

Simulators and Training Tools
Kongsberg's NEPTUNE Desktop Simulator

- Medium Speed M22 Pielstick 10PC4
- Slow Speed MC90-V MAN B&W 5L90MC

GEA Westfalia Separator, Inc.

- GEA Westfalia Separator
- OSD 2 Compact Unit (Model OSD 2-02-137)

Teaching Facility
STAR Center, Dania Beach, Florida

Electrical and Instrumentation Troubleshooting (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved electrical and controls troubleshooting skills in STAR Center's electrical laboratory.

This Course is intended for Professional Development

Scope

This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to refine troubleshooting skills directed towards motor controllers, fire systems, engine automation, cargo systems, and electrical components. Applying this knowledge, students will demonstrate the practical application of the above-mentioned skills. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:

"*Student Name* has successfully completed the one-week Electrical and Instrumentation Troubleshooting – Professional Development Course and has received instruction and demonstrated troubleshooting skills in the following disciplines: motor controllers, fire systems, engine automation, cargo systems and electrical components."

Entry standards
Student minimum prerequisites are:

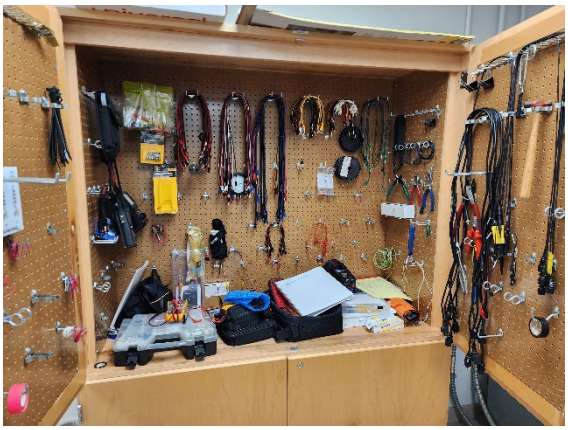
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

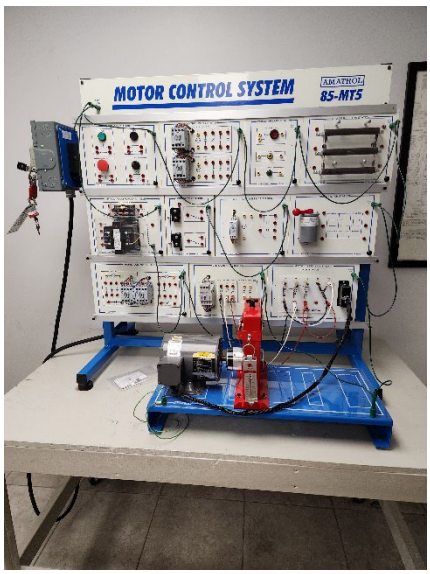
Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:

Apparel:

- Wear long pants
- Wear close-toed shoes

Teaching Facilities
STAR Center, Dania Beach, Florida





Engineering Training and Assessment (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved watchstanding technical and watchstanding behavioral "soft skills" by completing practical exercises in STAR Center's Kongsberg full mission Engine Room Simulator.

This Course is intended for Professional Development

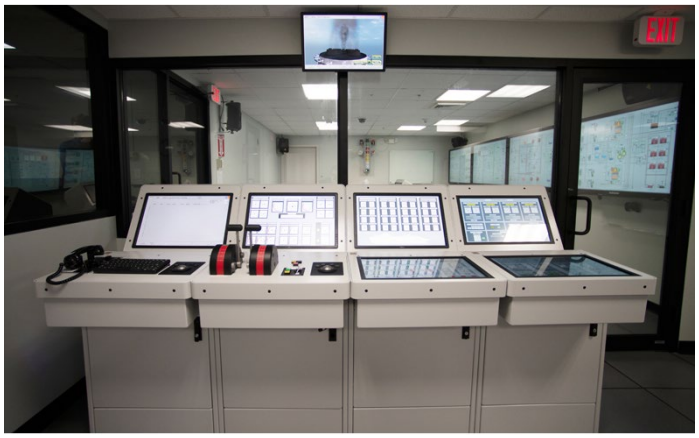
Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to sharpen individual watchstanding and watchkeeping skills prior to a Behavioral Competency Assessment (BCA). This course does not meet any requirements for STCW certification or other endorsements or certifications.

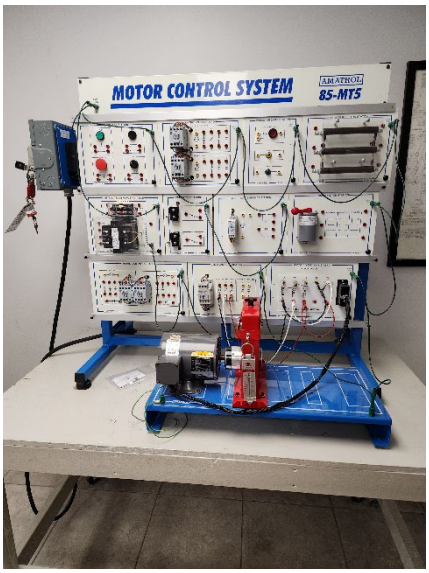
The course completion certificate will state:
"*Student Name* has successfully completed the one-week Engineering Training and Assessment – Professional Development Course and has received instruction and demonstrated skills in the following disciplines: watchstanding and watchkeeping."

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed shoes

Teaching Facilities
STAR Center, Dania Beach, Florida





Gas Turbine Crossover (Endorsement) (STRCTR-208)

Length 10 days (excludes weekends) 8/1 for labs/assessments and 8/1 for classroom

Objective
This course is intended to train those engineering officers on gas turbine propulsion vessels. It brings together the various engineering disciplines underlying the design of the marine gas turbine propulsion plant. It is appropriate for those engineering officers holding a steam or motor or gas turbine unlimited horsepower license. Each student who successfully completes this course will have gained the operational knowledge required of the various components and systems of a typical marine gas turbine propulsion plant.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant, who has successfully completed our Gas Turbine Crossover (Endorsement) (STRCTR-208) will satisfy:

- The course requirement of 46 CFR 11.502(b)(4) for adding the Gas Turbine endorsement to the level of the current Motor or Steam endorsement; OR
- Receive 60 days sea service credit towards upgrading a third assistant (Gas Turbine) engineer license to a second assistant (Gas Turbine) engineer license. This course may not be used to satisfy recency requirements; AND
- The Gas Turbine Plants training requirements of 46 CFR 11.329(a)(4)(vii); AND
- The Gas Turbine Plants standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-8) Tasks 1.1.D, 4.3.B, 4.3.E, and 4.3.H; AND
- The Gas Turbine Plants standards of competence required by 46 CFR 11.325(a)(2); STCW Code Section A-III/2 and Table A-III/2, as amended 2010, meeting the National Assessment Guidelines from NVIC 15-14(Ch-6) Tasks 1.3.A, 1.3.B, 1.3.C, 1.3.D, 3.3.A, and 7.1.C.

Applicants who have successfully completed course, need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

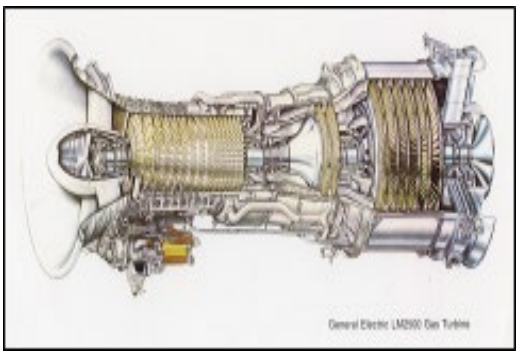
This course may be used for one application only towards sea time credit OR Gas Turbine endorsement cross-over and may not be used for subsequent raises-in-grade or cross-over applications. For Gas Turbine endorsement crossover, the applicant must also take the Increase in Scope exam at a USCG REC; the examination requirements are not met by this course."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards/Prerequisites
Each student should have at least a STCW Certification as an "Officer-in-Charge of an Engine Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English. Each student should have a working knowledge and good understanding of the principles of Thermodynamics, Fluid Mechanics and Turbo Machinery.

Please be prepared for class with the following:
STAR Center will provide all necessary course materials.

Teaching Facility
STAR Center, Dania Beach, Florida



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Hydraulics (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved hydraulic and pneumatic troubleshooting skills by completing practical exercises in STAR Center's hydraulics workshop.

This Course is intended for Professional Development

Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide knowledge in the operation and troubleshooting of hydraulic and pneumatic equipment. Directed towards design features, component operation, maintenance, repair, troubleshooting, and safe working conditions. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:
"*Student Name* has successfully completed the one-week Hydraulics - Professional Development Course and has received instruction and demonstrated operational and troubleshooting skills in the following disciplines: hydraulic and pneumatic equipment; design features, component operation, maintenance, repair, troubleshooting and safe working conditions thereof."

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed shoes



Teaching Facilities
STAR Center, Dania Beach, Florida

High Voltage Safety (STRCTR-219)

Length 5 days (excludes weekends)

Scope
This course is intended to provide credentialed Engineering Officers and Electro-Technical Officers, having duties and management responsibilities for the operation, safety, and management of shipboard high-voltage (HV) electrical power plants above 1,000 Volts, with the increased knowledge and heightened hazard awareness that is required to comply with the functional, operational and unique safety requirements of marine high-voltage (HV) propulsion power plants.

Objectives
Upon successful completion of this course and its practical assessments, each student shall be able to describe the basic design features of shipboard HV propulsion plants, give a detailed description of HV safety precautions, and state the liabilities of a credentialed Engineer Officer with responsibilities for the management, safe operation, and maintenance of high-voltage (HV) electrical power plants above 1,000 Volts and have demonstrated competency in accordance with the requirements of the STCW Code, tables A-III/1 and, A-III/2, and the recommendations of the STCW Code, table B-III/2 as described in NVIC 23-14 and NVIC 24-14, for the for the additional training and assessment required for high-voltage (HV) installations. YouTube videos are referenced as an additional tool that will be used only if time permits and if the video is still available on YouTube.

The course certificate will state:
"Any applicant who has successfully completed our *High Voltage Safety (STRCTR-219)* course will satisfy the High-Voltage Power Systems training requirements of:

- 46 CFR 11.335(a)(4)(vi) for STCW endorsement as an Electro-Technical Officer (ETO) on vessels powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more (Operational Level); AND
- 46 CFR 12.611(a)(4)(ii) for STCW endorsement as an Electro-Technical Rating (ETR); AND
- STCW Code Section A-III/2 and Table A-III/2, as amended 2010; AND the standards of competence required by:
- 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-7) Tasks 6.1.E and 7.3.A; AND
- 46 CFR 11.331(a)(2); STCW Code Section A-III/3 and Table A-III/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 16-14(Ch-5) Task 5.1.D; AND
- 46 CFR 11.335(a)(2); STCW Code Section A-III/6 and Table A-III/6, as amended 2010, meeting the National Assessment Guidelines from NVIC 23-14(Ch-4) Tasks 1.8.A, 2.1.A, 4.1.A, 4.1.B, and 4.1.C; AND
- 46 CFR 12.611(a)(3); STCW Code Section A-III/7 and Table A-III/7, as amended 2010, meeting the National Assessment Guidelines from NVIC 24-14(Ch-4) Tasks 1.1.A, 1.1.B and 2.1.A.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Entry Standards
This course is open to all apprentice engineers and credentialed Engineering Officers having duties and responsibilities for the operation and safety of shipboard electrical power plants of above 1,000 Volts (1 kV) including those with management responsibilities.

Simulators and Training Tools
Full Mission Simulator

Teaching Facility
STAR Center, Dania Beach, Florida



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Machine Shop 1 (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved machine shop skills by fabricating multiple machined projects in STAR Center's machine shop.

This Course is intended for Professional Development

Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to refine individual machine shop skills in the following disciplines including but not limited to setup and operation of lathes, milling machines, and drill presses. Applying this knowledge, students will fabricate multiple machined projects. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:
"*Student Name* has successfully completed the one-week Machine Shop 1 - Professional Development Course and has received instruction and demonstrated skills in the following disciplines: setup and operation of lathes, milling machines, and drill presses."

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed work boots with socks

STAR Center will supply the following:
- Apron
- Goggles and Safety Glasses



Teaching Facilities
STAR Center, Dania Beach, Florida



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Machine Shop 2 (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved machine shop skills by fabricating advanced machining projects in STAR Center's machine shop.

This Course is intended for Professional Development

Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will build upon individual machine shop skills from Machine Shop 1. Students will plan and fabricate multiple advanced machine projects. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:
"*Student Name* has successfully completed the one-week Machine Shop 2 - Professional Development Course and has received instruction and demonstrated skills in the following disciplines: designing, planning, and fabrication of advanced machining projects."

Entry standards

Student minimum prerequisites are:
- Completion of Machine Shop 1 Professional Development Course
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:

Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed work boots with socks

STAR Center will supply the following:
- Apron
- Goggles and Safety Glasses



Teaching Facilities
STAR Center, Dania Beach, Florida



Programmable Logic Controllers (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved understanding and knowledge of the principles governing the operation and troubleshooting of Programmable Logic Controllers in STAR Center's electrical laboratory.

This Course is intended for Professional Development

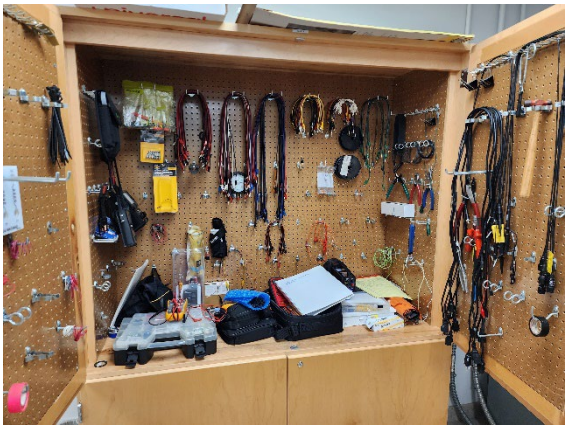
Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to refine Programmable Logic Controller (PLCs) theory; including familiarization with technical details supporting safety, selection, operation, maintenance, and troubleshooting of PLCs. This course does not meet any requirements for STCW certification or other endorsements or certifications.

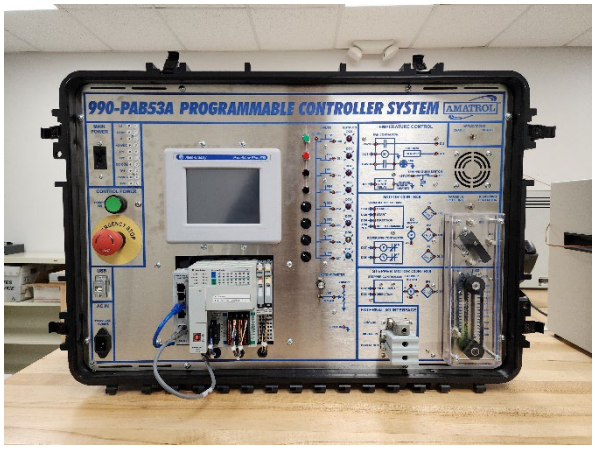
The course completion certificate will state:
"*Student Name* has successfully completed the one-week Programmable Logic Controllers - Professional Development Course and has received instruction and demonstrated skills in the following disciplines: familiarization with technical details supporting safety, selection, operation, maintenance, and troubleshooting of PLCs."

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed shoes

Teaching Facilities
STAR Center, Dania Beach, Florida





Refrigeration (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate increased skills in refrigeration and HVAC operation; maintenance; troubleshooting; recovery; charging; evacuation; soldering; and brazing in STAR Center's refrigeration workshop.

This Course is intended for Professional Development

Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to refine refrigeration and HVAC skills including but not limited to: operation; maintenance; troubleshooting; recovery; charging; evacuation; soldering; and brazing. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:
"*Student Name* has successfully completed the one-week Refrigeration – Professional Development Course and has received instruction and demonstrated refrigeration and HVAC skills in the following disciplines: operation, maintenance, troubleshooting recovery, charging, evacuation, soldering and brazing."

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed shoes



STAR Center will supply the following:
- Apron and Sleeves
- Goggles and Safety Glasses
- Striker
- Wire brush

Teaching Facilities
STAR Center, Dania Beach, Florida



Steam Crossover (Endorsement) (STRCTR-477)

Length 20 days (excludes weekends)

Objective
Each student who successfully completes this course will learn the background knowledge to support the tasks, duties, and responsibilities in:

- Managing the operation of steam propulsion plant machinery
- Planning and scheduling operations
- Operation, surveillance, performance assessment and maintaining safety of steam propulsion plant and auxiliary machinery
- Manage fuel, lubrication and ballast operations

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Steam Crossover (Endorsement) (STRCTR-477)* course will satisfy:

- The course requirement of 46 CFR 11.502(b)(4) for adding the Steam endorsement to the level of the current Motor or Gas Turbine endorsement; OR
- Receive 60 days sea service credit towards upgrading a third assistant (Steam) engineer license to a second assistant (Steam) engineer license. This course may not be used to satisfy recency requirements; AND
- The Steam Plants training requirements of 46 CFR 11.329(a)(4)(viii); AND
- The Steam Plants standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-8) Tasks 1.1.C, 4.1.B, 4.1.C, 4.2.B, 4.3.A, 4.3.D, 4.3.G, 4.3.J, 4.3.K, 4.3.L, 4.3.P, 4.3.Q and 6.1.C; AND
- The Steam Plants standards of competence required by 46 CFR 11.325(a)(2); STCW Code Section A-III/2 and Table A-III/2, as amended 2010, meeting the National Assessment Guidelines from NVIC 15-14(Ch-6) Tasks 1.2.A, 1.2.B, 1.2.C,1.2.D, 3.2.A, and 7.1.B.

Applicants who have successfully completed our course need not present "Control Sheets" for these assessments in application for STCW certification."

This course may be used for only one application towards sea time credit OR a Steam endorsement cross-over and may not be used for subsequent raises-in-grade or cross-over applications.

For Steam endorsement crossover, the applicant must also take the Increase in Scope exam at a USCG REC; the examination requirements are not met by this course.

Scope
This course is intended to meet training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to applicants who hold a valid USCG Merchant Marine Engineering License of Any Horsepower. The course is intended for officers for certification as chief engineer and second (first) engineer on ships powered by main steam propulsion machinery of 3000KW propulsion power or more. Each student should have successfully completed a course covering the minimum standards required for certification as officer in charge of an engineering watch and have approved seagoing service. Each student must be at least 18 years of age, in possession of a valid Merchant Mariners Document and proficient in the English language.

Simulators and Training Tools

- Kongsberg Desktop model SP25 Steam Propulsion Plant Simulator

Teaching Facility
STAR Center, Dania Beach, Florida

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Welding & Metallurgy—Skills & Practices (STRCTR-551)

Length 10 days (excludes weekends)

Objective
The objective of this course is to teach students to use the basic welding skills required for their engineering duties and to satisfy requirements for the Officer in Charge of the Engineering Watch (OICEW).

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Welding & Metallurgy – Skills and Practices (STRCTR-551)* course will satisfy the Welding and Fabrication standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-6) Tasks 8.1.B and 8.1.C.

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in applications for STCW certification."

Scope
This course provides students with a thorough knowledge and understanding of marine engineering at the operational level, specifically in the use of appropriate techniques for fabrication and repair operations such as welding, cutting, soldering, and brazing. This course provides theory and lab practice of the basic welding and metallurgy processes including Oxy-Acetylene Equipment (OAE), Shielding Metal Arc Welding (SMAW), and Flux Core Welding (FCW).

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed work boots with socks

STAR Center will supply the following:
- Welding helmet
- Apron
- Sleeves
- Goggles
- Safety Glasses
- Chipping hammer
- Striker
- Wire brush
- Course materials



Teaching Facilities
STAR Center, Dania Beach, Florida

Welding 1 (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved welding skills by completing practical exercises in STAR Center's welding laboratory.

This Course is intended for Professional Development

Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to refine individual welding skills in the following disciplines including but not limited to bead on plate; flat, horizontal, vertical, and MIG welding. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:
"*Student Name* has successfully completed the one-week Welding 1 – Professional Development Course and has received instruction and demonstrated welding skills in the following welding disciplines: bead on plate, flat, horizontal, vertical and MIG. "

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:

Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed work boots with socks



STAR Center will supply the following:
- Welding helmet
- Apron and Sleeves
- Googles and Safety Glasses
- Striker
- Wire brush

Teaching Facilities
STAR Center, Dania Beach, Florida

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Welding 2 (Professional Development)

Length 5 days

Objective
The objective of this course is for students to demonstrate improved welding skills by completing practical exercises in STAR Center's welding laboratory.

This Course is intended for Professional Development

Scope
This five-day professional development course will be given at our facility at the STAR Center in Dania Beach, Florida. This course will provide an opportunity to refine individual welding skills in the following disciplines including but not limited to: overhead welding; pipe welding; TIG welding; and carbon arc gouging. This course does not meet any requirements for STCW certification or other endorsements or certifications.

The course completion certificate will state:
"*Student Name* has successfully completed the one-week Welding 2 – Professional Development Course and has received instruction and demonstrated welding skills in the following welding disciplines: overhead welding, pipe welding, TIG welding and carbon arc gouging."

Entry standards
Student minimum prerequisites are:
- Completion of Welding 1 Professional Development Course
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for class with the following:
Please note that you must adhere to the following requirements of this course:
Apparel:
- Wear long pants
- Wear close-toed work boots with socks

STAR Center will supply the following:
- Welding helmet
- Apron and Sleeves
- Goggles and Safety Glasses
- Chipping hammer
- Striker
- Wire brush



Teaching Facilities
STAR Center, Dania Beach, Florida

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EPA 608 Universal Technician Exam

Length 4 Online Exams

Objective
The objective of these exams is to meet the requirements needed to be issued an EPA 608 Universal Technician Certificate.

Scope

The Universal Technician exam contains four sections: Core, Type I, Type II, and Type III. Each section contains twenty-five (25) multiple-choice questions. You must achieve a minimum passing score of 70 percent in each section to be certified. A passing score of 70 percent is 18 out of 25 questions. You may retake a failed section without taking the sections you have passed. The preparation for these exams is self-study. Material for preparation is located on the internet.

1. EPA608 Certification Study Guide (https://epa608app.com/studyguides/HVACTS_EPA608.pdf)
2. HVAC Certification Practice Tests (https://www.hvaccertificationpracticetests.com/epa-608/epa-608-core-exam-free-online-practice-test-1/)
3. EPA 608 Practice Test (https://www.test-guide.com/free-epa-608-practice-tests.html)
4. EPA 608 Practice Test with Answers (https://www.epa608app.com/practice-test/)

Entry standards
Student minimum prerequisites are:

- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient in the English language
- At least 18 years of age.

Please be prepared for the testing with the following:

- Core test contains 25 general knowledge questions relating to ozone depletion, rules and regulations of the Clean Air Act, Montreal Protocol, recovery, recycling, reclaiming, refrigerants and oils, cylinders, and shipping.
- Type I test contains 25 questions pertaining to small appliances.
- Type II test contains 25 questions pertaining to medium and high-pressure appliances.
- Type III test contains 25 questions pertaining to low-pressure appliances.

Teaching Facilities
Online Testing with Exam Soft





Advanced Maintenance and Repair (Professional Development)

Length: 5 days

Objective
The objective of this course is to deliver unmatched skill development that directly translates to reduced downtime, extended asset life, and superior reliability in demanding maritime and industrial environments.

This Course is intended for Professional Development

Scope
The 5-day Advanced Maintenance and Repair Professional Development course is designed for experienced maintenance professionals ready to elevate their expertise to top-tier levels. Students master cutting-edge predictive maintenance techniques, including:

- vibration analysis
- thermographic imagery
- oil analysis
- precision shaft alignment (both dual dial indicator and laser methods), and
- innovative 3D printing/scanning for rapid part replacement

while performing intensive hands-on labs that simulate real-world industrial challenges.

Over the course of the week, attendees disassemble, inspect, repair, align, and reassemble centrifugal pumps using modern predictive tools to diagnose and correct issues on the spot. The program then advances to comprehensive inspections of refrigeration compressors, Framo cargo pumps, and EMD/Volvo engines.

The course completion certificate will state:
"*Student Name* has successfully completed the five-day Advanced Maintenance and Repair Professional Development Course."

Teaching Facilities
STAR Center, Dania Beach, Florida

IX. ENGINE UPGRADE AT THE MANAGEMENT LEVEL (STCW 2010)

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Engine Room Resource Management (STRCTR-187)

Length 5 days

Objective
This course is intended to provide credentialed EOs, having duties and responsibilities for the safe operation of shipboard propulsion plants, with an increased level of knowledge of how human factors and human interaction with technology directly impact the safe and efficient operation of the ship, its machinery and equipment.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Engine Room Resource Management (STRCTR-187)* course will satisfy the:

- Engine Room Resource Management training requirements of 46 CFR 11.325(a)(3)(i) and (b)(1); 46 CFR 11.327(a)(3)(i) and (b)(1); 46 CFR 11.329(a)(4)(iv); 46 CFR 11.331(a)(3)(i) and (b)(1); and 46 CFR 11.333(a)(3)(i) and (b)(1); AND
- Receive 30 days sea service credit toward obtaining a National Engineering Officer Endorsement, this course cannot be used to for recency; AND
- The Engine Room Resource Management standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-7) Task 1.4; AND
- The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.329(c); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14 (Ch-7) Tasks 15.1.A; 16.1.A; 16.2.A; 16.3.A; and 16.4.A.

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
Successful completion of this course will satisfy the requirements for demonstrated competence in Engine Room Resource Management principles that are necessary for an STCW endorsement as an Officer in Charge of an Engineering Watch (OICEW) in a manned engine room or designated duty engineer in a periodically unmanned engine room on vessels powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more (operational level) in accordance with Section A-III/1 of the STCW Code as amended and 46CFR §11.329.

Entry standards
This course is open to all licensed engineers, apprentice engineers with at least 4 months sea time in the engine department, and/or, QMED or equivalent with 6 months sea time in the engine department.

Simulators and Training Tools
Full Mission Simulator

Please be prepared for class with the following:

- No extra class material required

Teaching Facility
STAR Center, Dania Beach, Florida



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Engine Room Resource Management (Operational Level)

(STRCTR-188)

Length 5 days

Objective
The objective of this course is to gain a fundamental understanding of engine room resource management and to successfully participate in leadership and team exercises, thereby displaying knowledge of leadership, managerial skills, and teamworking skills.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Engineroom Resource Management (Operational Level) (STRCTR-188)* course will satisfy:

- The Engine Resource Management training requirements of 46 CFR 11.325(a)(3)(i) and (b)(1); 46 CFR 11.327(a)(3)(i) and (b)(1); 46 CFR 11.329(a)(4)(iv); 46 CFR 11.331(a)(3)(i) and (b)(1); and 46 CFR 11.333(a)(3)(i) and (b)(1); AND
- Leadership and Team Working Skills requirements of 46 CFR 11.329(c); AND
- Specific tasks from NVIC 17-14 (Ch-4), Officer in Charge of an Engineering Watch: Tasks 1.4, 15.1.A, 16.1.A, 16.2.A, 16.3.A, 16.4.A

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification; OR Receive 30 days sea service credit towards the upgrading of their unlimited third assistant engineer license. This sea service credit may not be used for recency."

Scope
This course is classroom-based, designed for the modern ship's licensed engineering personnel. The course relies on lecture, video, group exercises, and case studies as tools to learn resource management. The course topics and exercises are designed to expose the student to human factors and to relay the importance of these factors in managing information and engineering operations of the engineering plant.

Entry standards
Student minimum prerequisites are:

- In possession of a valid Merchant Mariner Credential (MMC)
- Students are to hold at minimum a QMED endorsement
- Proficient in the English language

This class will satisfy the STCW OICEW requirements

Please be prepared for class with the following:

- No extra class material required

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact student services for more information.

Leadership & Managerial Skills (STRCTR-751)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable and proficient in Leadership and Managerial Skills regulations as stated in Standards of Training Certification and Watchkeeping as amended tables- A-II/2, and A-III/2. Additionally, students will gain knowledge of:

Leadership and Managment
- Decision Making
- Strategic Planning, Task and Workload Management
- Effective Resource Management Onboard
- Effective Communications
- Assertiveness, Leadership and Motivation
- Obtaining and Maintaining Situational Leadership

Leadership in the Maritime Environment
- Personnel Management and Administration
- Operations, Drills and Training
- Maintanence and Drydocking
- International Maritime Conventions and Recommendations and National Legislation
- Safety and Environmental Leadership in the Maritime Industry
- Development, implementation and oversight of standard operating procedures

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Leadership and Managerial Skills (STRCTR-751)* course will satisfy:
- The Leadership and Managerial Skills within 46 CFR 11.305; 46 CFR 11.307; 46 CFR 11.311; 46 CFR 11.313; 46 CFR 11.315; 46 CFR 11.317; 46 CFR 11.325; 46 CFR 11.327; 46 CFR 11.331; 46 CFR 11.333; AND
- The equivalent to specific tasks documented in:
  i. NVIC 10-14 (Tasks 15.3.A, 15.5.A, 15.8.A, and 18.1.A thru 18.2.A),
  ii. NVIC 11-14 (Tasks 15.3.A, 15.5.A, 15.8.A, and 18.1.A thru 18.3.A);
  iii. NVIC 15-14 (Tasks 7.1.D, 11.1.A, 12.1.A, and 14.1.A); AND
  iv. NVIC 16-14 (Tasks 7.1.D, 11.1.A, 12.1.A, and 14.1.A

Applicants who have successfully completed this course need not present completed Task Control Sheets for these assessments in application for STCW certification."

Scope
This is a classroom course that is intended to meet the Leadership and Managerial Skills training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should have an STCW Certification as an "Officer-in-Charge of a Navigation Watch" or have an equivalent and experiential background, be in good physical health and speaks and understands English.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

Teaching Facility
STAR Center, Dania Beach, Florida

*May also be offered as an online course. Please contact Student Services for more information.

Leadership & Teamworking Skills (STRCTR-768)

Length 1 day

Objective
The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to leadership and teamworking and in doing so, satisfy company, national and international regulations for candidates for certification as an OICEW or higher.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who successfully completed our *Leadership and Teamworking Skills (STRCTR-768)* course will satisfy:

- The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.309(c)(1); and 11.319(b)(1); STCW Code Section A-II/I and Table A-II/I, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-4) and 02-18(Ch-1) Tasks 18.1.A, 18.2.A, 18.3A, 18.4.A and 18.5.A; AND
- The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.321 (b)(1); STCW Code Section A-II/3 and Table A-II/3 as amended 2010; AND
- The Leadership and Teamworking Skills standards of competence required by 46 CFR 11.329(c); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-4) Tasks 16.1.A., 16.2.A, 16.3.A and 16.4.A.

Applicants who have successfully completed this course need not present completed Task Control Sheets for these assessments in application for STCW certification."

Scope
Students should be able to demonstrate understanding and knowledge of leadership and teamwork and gain the skills to competently carry out the duties of an officer in charge of an engineering watch. This is a classroom course that is intended to meet the Leadership and Managerial Skills training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards/Prerequisites
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be documented at a minimum as a QMED, be in good physical health and speaks and understands English. Each student must have successfully completed an approved Engine Resource Management course.

Please be prepared for class with the following:
STAR will provide all necessary course materials.

Teaching Facility
STAR Center, Dania Beach, Florida



Management of Electrical & Electronic Control Equipment (MEECE) (STRCTR-176)

Upgrade: Electrical, Electronics & Control Engineering (Management Level)

Length 5 days

Objective

Each student who successfully completes this course will comply with the Function Electrical and Electronic Control Equipment at the Management Level for competences; manage the operation of electrical, electronic and control equipment and manage trouble-shooting, restoration of electrical and electronic control equipment to operating condition from the STCW Code and will attain knowledge and proficiency in the following areas:

- Fundamentals of Marine Electro-technology
- Basics of Electronic and Power Electronic
- Principles of Control Engineering
- Design Features and System Configurations of Main Engines
- Generators and Power Distributions
- Steam Boilers
- Electrical Motors
- High Voltage Installations
- Features of Hydraulic and Pneumatic Control Equipment.

This Course is USCG Approved. The certificate will state:

"Any applicant who has successfully completed our *Management of Electrical & Electronic Control Equipment (MEECE) (STRCTR-176)* course will satisfy:

- The Management of Electrical & Electronic Control Equipment training requirements of 46 CFR 11.325(a)(3)(iii) and (b)(3); 11.327(a)(3)(iii) and (b)(3); 11.331(a)(3)(iii) and (b)(3); and 11.333(a)(3)(iii) and (b)(3); AND
- The standards of competence required by 46 CFR 11.325(a)(2); 11.327(a)(2); 11.331(a)(2); and 11.333(a)(2); STCW Code Section A-III/2 and III/3 and Table A-III/2 and III/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 15-14(Ch-6) Tasks 5.1 and 6.1; AND
- The standards of competence required by 46 CFR 11.329(c); STCW Code Section A- III/3 and Table A-III/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 16-14(Ch-5) Tasks 5.1.A, 5.1.B, 5.1.C, 51.D, 5.1.E and 6.1.A.

Applicants who have successfully completed this course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope

This course is intended to meet the training requirements as listed above in the USCG Approved Certificate section.

Entry standards/Prerequisites

This course is open to Chief Engineers and First Engineers (Second Engineer International) required to comply with STCW 2010 MEEC gap closing requirements by January 1st, 2017.

Prerequisite knowledge of basic theory and shipboard electrical/electronic equipment, obtained through formal training and/or shipboard experience, is required.

Please be prepared for class with the following:

STAR will provide all necessary course materials.

Teaching Facility

STAR Center, Dania Beach, Florida

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X. ENGINE OICEW – OFFICER IN CHARGE OF AN ENGINEERING WATCH

Third Engineer Program (STRCTR-519)
The Engineering Candidate Hawsepipe (TECH) Program

Length
2 years (104 weeks)
4,160 clock hours (V.A.)

Objective
To meet the service requirements to sit for a third assistant engineer of motor propelled vessels as part of a comprehensive apprentice engineer training program under 46 CFR 11.516(a)(6) and
To meet the requirements of 46 CFR 11.329(a)(1)(ii) for accumulating and documenting a minimum of 12 months (360 days) of sea service as part of an approved program and
To meet the assessment requirements of 46 CFR 11.329(a)(3) for Motor Propelled Vessels and
To meet the training requirements of 46 CFR 11.329(a)(4) limited to Motor Propelled Vessels.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any Applicant completing the *Third Engineer Program (STRCTR-519)* and submitting the Certificate of Training AND upon successful completion of the USCG issued Third Engineer examination for Motor Vessels will satisfy:

1. **National:**
   a. The service requirements of 46 CFR 11.516(a)(6) for endorsement as Third Assistant Engineer of Motor Vessels of Any Horsepower PROVIDED the applicant documents a minimum of 360 days sea service aboard Motor Vessels over 4000 HP while serving in the capacity as Apprentice Engineer; AND
   b. PROVIDED the application is submitted within one year of program completion:
      1) The service, examination, and practical demonstration of ability requirements of 46 CFR 12.407(b)(3) for an endorsement as Lifeboatman; AND
      2) The First Aid and CPR training requirements of 46 CFR 11.201(i)(1); AND
   c. The training requirements of 46 CFR 13.201(c)(4), 13.301(c)(4), 13.401(e)(1), and 13.501(c)(4) *toward* endorsement as Tankerman-PIC DL, Tankerman-PIC DL (Barge), Tankerman-Assistant DL, and Tankerman-Engineer DL; AND
      1) The course requirements of 46 CFR 10.227(e)(1)(iii) and 46 CFR 13.120(a)(2), (b)(2), (c)(2) and (d)(2) for renewal of a Tankerman endorsement; AND
      2) Receive credit for the following:
         a) Two Loadings and Two Discharges as required by 46 CFR 13.203(b)(1) and 13.303(b)(1); AND
         b) One Commencement of Loading and One Completion of Loading as required by 46 CFR 13.203(b)(2) and 13.303(b)(2); AND
         c) One Commencement of Discharge and One Completion of Discharge as required by 46 CFR 13.203(b)(3) and 13.303(b)(3); AND
   d. The training requirements of 33 CFR 157.152(c)(2) for crude oil washing operations; AND
   e. The Basic and Advanced Fire Fighting requirements of 46 CFR 11.201(h)(2) and 46 CFR 11.201(h)(3); AND
   f. The Fire Fighting requirements of 46 CFR 13.201(c)(3), 13.301(c)(3), 13.401(d) and 13.501(c)(3) for any tankerman endorsement.

2. **STCW:**
   a. The service, training and standards of competence requirements of 46 CFR 11.329 and STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessments Guidelines from NVIC 17-14(Ch-5) relevant Tasks for Motor Vessels Only for endorsement as Officer In Charge of an Engineering Watch (OICEW) in a manned engine room or designated duty engineer in a periodically unmanned engine room powered by main propulsion machinery of 750 kW/1,000 HP or more limited to Motor Vessels Only (see Note 3 below); AND
   b. The Advanced Fire Fighting standards of competence required by 46 CFR 11.303(a); STCW Code Section A-VI/3 and Table A-VI/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 09-14(Ch-1), all Tasks; AND
   c. The Basic Training standards of competence required by 46 CFR 11.302(a) and 12.602(a); STCW Code Section A-VI/1 and Tables A-VI/1-1, 1-2, 1-3, and 1-4, as amended 2010, meeting the National Assessment Guidelines from NVIC 08-14(Ch-1) all Tasks; AND

d. The Medical First-Aid Provider training and competency requirements as follows:
   1) The training and standards of competence required by 46 CFR 12.619; STCW Code Section A-VI/4 and Table A-VI/4-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 05-04; AND
   2) The training requirements of 46 CFR 11.309(a)(4)(i), 11.317(a)(3)(i), 11.319(a)(4)(i), 11.321(a)(3)(i), 11.329(a)(4)(i), and 11.335(a)(3)(i); AND
   3) The standards of competence required by:
      a) 46 CFR 11.309(a)(3) and 11.319(a)(3); STCW Code A-II/1 and Table A-II/1, as amended 2010, meeting the National Assessment Guidelines from NVICs 12-14(Ch-5) and 02-18(Ch-3) Task 16.1; AND
      b) 46 CFR 11.317(a)(2) and 11.321(a)(2); STCW Code A-II/3 and Table A-II/3, as amended 2010, meeting the National Assessment Guidelines from NVIC 13-14(Ch-4) Task 11.1.A; AND
      c) 46 CFR 11.329(a)(3); STCW Code A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-5) Task 14.1; AND
      d) 46 CFR 11.335(a)(2); STCW Code A-III/6 and Table A-III/6, as amended 2010, meeting the National Assessment Guidelines from NVIC 23-14(Ch-2) Task 16.1.A; AND

e. The Vessel Personnel with Designated Security Duties (VPDSD) training requirements of 46 CFR 12.625(a)(1); and the standards of competence required by STCW Code Section A-VI/6 paragraph 6 and Table A-VI/6-2, as amended 2010, meeting the National Assessment Guidelines from NVIC 21-14 for an endorsement as VPDSD; AND

f. The Proficiency in Survival Craft and Rescue Boats Other Than Fast Rescue Boats (PSC) training requirements of 46 CFR 11.309(a)(4)(v), 11.319(a)(4)(v), 11.321(a)(3)(iii), 11.329(a)(4)(iii), and 11.335(a)(3)(iii); and the standards of competence required by 46 CFR 12.613; STCW Code Section A-VI/2 and Table A- VI/2-1, as amended 2010, meeting the National Assessment Guidelines from NVIC 04- 14(Ch-1) for an STCW endorsement as PSC; AND

g. The training and standards of competence required by STCW Code Section A-V/3 and Tables A-V/3-1 and A-V/3-2, as amended 2010, for STCW endorsement as Basic and Advanced IGF Code Operations. This does not satisfy any requirements of sea service or documentation of fuel transfers ; AND

h. The standards of training and competence required by 46 CFR 13.603(a)(2), (b)(2) or (c)(2) AND/OR 46 CFR 13.605(a)(2),(b2) or (c)(2) ; STCW Code Section A-V/1, Table A-V/1-1-2 AND/OR Table A-V/1-1-3, as amended 2010, meeting the National Assessment Guidelines from NVIC 22-14(Ch-2) for an STCW endorsement as Advanced Oil and/or Chemical Tanker Cargo Operations; PROVIDED that a statement signed by a Master or Chief Mate of an oil and/or chemical tanker that the mariner has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of dangerous liquid cargo, including those operations specified in 46 CFR 13.127(a)(4(i) thru (xiii) and/or 46 CFR 13.127(a)(4) thru (xiii) is provided.

NOTE 1: Application for an MMC endorsed as Apprentice Engineer shall be in accordance with 46 CFR 12.709.

NOTE 2: VPDSD and/or Basic Training endorsements may be issued on the apprentice's MMC on application for initial endorsement as Apprentice Engineer PROVIDED documentation is submitted of successful completion of the VPDSD (STRCTR-747) and Basic Training (STRCTR-65) courses as applicable.

NOTE 3: Successful completion of the Program will satisfy the service, training and competency requirements of the following NVIC 17-14(Ch-5) Tasks: 1.1.A, 1.1.B, 1.1.E, 1.1.F, 1.2.A, 1.3.A, 1.3.B, 1.3.C, 1.3.D, 1.4, 2.1, 3.1.A, 4.1.A, 4.2.A, 4.2.C, 4.3.C, 4.3.F, 4.3.I, 4.3.M, 4.3.N, 4.3.O, 4.3.P, 4.3.Q, 4.3.R, 4.3.S, 4.3.T, 4.3.U, 4.3.V, 4.3.W, 5.1.A, 5.2.A, 5.2.B, 5.2.C, 5.2.D, 5.2.E, 5.3.A, 6.1.A, 6.1.B, 6.1.D, 6.1.E, 6.2.A, 6.3.A, 7.1.A, 7.2.A, 7.2.B, 7.3.A, 7.4.A, 7.5.A, 7.5.B,7.5.C, 8.1.A, 8.1.B, 8.1.C, 8.2.A, 8.2.B, 8.2.C, 8.2.D, 8.3.A, 9.1.A, 9.1.B, 9.1.C, 10.1.A, 10.1.B,11.1.A, 11.2.A, 11.3.A, 11.4.A, 12.1, 13.1, 14.1, 15.1.A, 16.1.A, 16.2.A, 16.3.A, 16.4.A and 17.1.

Scope

This 2-year program is comprised of:

- 52 weeks of classroom training that are scheduled in 5 phases of between 7 weeks and 13 weeks duration
- 52 weeks of sea time onboard participating employer US/Marshal Island Flagged vessels that are scheduled in 4 phases of between 7 weeks and 17 weeks duration

Entry standards/Prerequisites

The program targets high performing high school graduates and others, including veterans, with an interest in a career in the merchant marine and mentors them during intense training onboard ship and ashore. Selection will be determined from the results of a series of interviews and tests to assess mechanical aptitude and mathematical academic ability.

Candidates must meet the United States Coast Guard (USCG) medical requirements for a licensed engineer and demonstrate high standards of academic achievement and engineering aptitude. Full details can be found on our website at https://www.star-center.com/techprogram/techprogram.html

Please be prepared for class with the following:

STAR will provide all necessary course materials. However, there are some entry fees and equipment costs that will be borne by successful candidates. Full details can be found on our website at https://www.star-center.com/techprogram/techprogram-costs.html

Successful candidates selected into the TECH Program may have their tuition and room and board fees, as well as most transportation costs incurred in completing the program sponsored, provided the individual agrees to complete the program successfully and sail as a licensed engineer for AMO upon completion.

Teaching Facilities

STAR Center, Dania Beach, Florida
US Flagged vessels as assigned

Auxiliary Steam Operations (OICEW) (STRCTR-965)

Length 5 days

Objective
The objective of this course is to introduce the student to areas relevant to auxiliary steam operations and to cover subjects on auxiliary steam stated in 46 CFR 11.950. Students will have attained knowledge in the following area concerning auxiliary steam:

- Steam Theory
- Auxiliary Boilers
- Feed water Systems
- Condensate Systems
- Recovery Systems
- Boiler Water Chemistry
- Auxiliary Turbines

This Course is USCG Approved and STCW Compliant. The course certificate will state:
"Any applicant, who successfully completes our *Auxiliary Steam Operations (OICEW) (STRCTR-965)* course will satisfy the training requirements of Table A-III/1 of the STCW Code for the competence to operate main and auxiliary machinery and associated control systems for the Steam Boiler and associated auxiliaries and steam systems aboard motor vessels. This approval does not satisfy the mandated Steam Plants training of 46 CFR 11.329 (a)(4)(viii)."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speak and understands English.

Please be prepared for class with the following:

- No extra class material required

Teaching Facility
STAR Center, Dania Beach, Florida

Auxiliary Machinery (STRCTR-862)

Auxiliary Machinery I, II & III

Length 15 days

Objective

This course covers the pertinent topics included in IMO Model Course 7.04–Officer in Charge of an Engineering Watch. The objective of this course is to instruct the student in the areas relevant to Auxiliary Machinery. Each student who successfully completes this course will satisfy the auxiliary machinery training requirements for STCW endorsements, qualify for an STCW endorsement as Officer in Charge of an Engineering Watch (OICEW) in a manned engineroom or designated duty engineer in a periodically unmanned engineroom on vessels powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more (operational level) provided that they have also completed the Coast Guard approved Auxiliary Machinery Parts A and B courses. Examination subjects for engineer officer endorsements include:

- Steering Systems
- Shafting, Bearings, and Stern Tube Systems
- Deck machinery
- Heat Exchangers
- Distilling Plants
- Centrifugal Separators
- Oily Water Separators
- MSD's
- Fire Fighting systems
- Filters
- Viscometers
- Ventilation Systems
- Pumps
- Compressors

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who successfully completes our A*uxiliary Machinery (STRCTR-862)* course will satisfy: The Auxiliary Machinery training requirements of 46 CFR 11.329 (a)(4)(vi) for STCW endorsement as Officer in Charge of an Engineering Watch (OICEW) on vessels powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more (Operational Level); AND The Engineering Terminology and Shipboard Operations training requirements of 46 CFR 11.329(a)(4)(v) for STCW Endorsement as Officer in Charge of an Engineering Watch (OICEW) on vessels powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more (Operational Level); AND The Auxiliary Machinery standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-6) Tasks 1.1.A, 1.1.B, 1.1.E, 1.1.F, 1.2.A, 1.3.A, 1.3.B, 1.3.C, 1.3.D, 4.1.A, 4.2.A, 4.3.T, 4.3.U, 4.3.V, 8.2.A, 8.2.B, 8.2.C, 8.2.D, 9.1.A, 9.1.B, 9.1.C, 11.1.A, 11.2.A, 11.3.A and 11.4.A. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope

This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards

This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speak and understands English.

Please be prepared for class with the following:

- No extra class material required

Teaching Facility

STAR Center, Dania Beach, Florida

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Electrical Machinery & Basic Electronics (EMBE) (STRCTR-861)

EMBE I, II & III

Length

EMBE I	5 days	Please Note: ALL Modules Must be Taken in Order for Full USCG Credit
EMBE II	5 days	
EMBE III	10 days (excludes weekends)	
Total	**20 days**	

Objective

This course covers the pertinent topics included in IMO Model Course 7.04–Officer in Charge of an Engineering Watch. The objective of this course is to introduce the student to the basic principles of Electrical Machines and Basic Electronics (EMBE) and associated subjects. Students who have successfully completed this course will have attained knowledge in the following areas concerning EMBE:

- Safe working Practices
- Basic Electrical Principles
- Electric Circuits
- Solid State Technology
- Operational Amplifiers
- Solid-State Power Supplies
- Power Electronics
- Principles of Electrical Maintenance
- Electrical Diagrams and Technical Documentation
- Electronic Components
  - Diodes
  - Transistors
  - Solid State Special Devices
- Vibration and Thermal Surveys
- Electrical Test Equipment
- Fault Detection and Protection Devices
- Standards Organizations
- Rules and Regulations
- Testing and Troubleshooting
- High Voltage
- Maintenance & Repair of Electrical Machinery

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who successfully completes all modules *(EMBE I, II & III)* comprising our *Electrical Machinery and Basic Electronics (EMBE) (STRCTR-861*) course will satisfy:

- The EMBE training requirements of 46 CFR 11.329(a)(4)(x) for STCW endorsement as Officer in Charge of an Engineering Watch (OICEW) on vessels powered by main propulsion machinery of 750 kW / 1,000 HP propulsion power or more (Operational Level); AND
- The EMBE standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14 (Ch-5) Tasks 6.1.A, 6.1.B, 6.1.D, 6.2.A, 7.1.A, 7.2.A, 7.2.B, 7.3.A and 7.4.A. Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW endorsement."

Scope

This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards

This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speak and understands English.

Please be prepared for class with the following:

- No extra class material required

Teaching Facility

STAR Center, Dania Beach, Florida

Engineering Terminology & Shipboard Operations (ETSO)

(STRCTR-825)

Length 9 days (excludes weekends)

Objective
The objective of this course is to introduce the student to areas relevant to the basic shipboard operations, terminology, construction, safe working practices and uses of tools to cover subjects on motor propulsion stated in 46 CFR 11.950. Students will have attained knowledge in areas concerning general shipboard systems including:

- Machinery Nomenclature and Equipment
- Engine Room Watchkeeping Procedures
- Safe Work practices related to Engine Room Operations
- Basic Environmental Protection Procedures
- Proper use of Internal Communication Systems
- Engine room Alarm Systems
- Tanker Familiarization
- Proper use of Hand tools
- Power tools

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *Engineering Terminology and Shipboard Operations (STRCTR-825)* course will satisfy the ETSO training requirements of 46 CFR 11.329(a)(4)(v) for STCW endorsement as Officer in Charge of an Engineering Watch (OICEW) on vessels powered by main propulsion machinery of 750kW/1,000 HP propulsion power or more (Operational Level)."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speak and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

Engine Watchkeeping Operational Level (STRCTR-723)

Length 10 days (excludes weekends)

Objectives
Each student who successfully completes this course will improve the student's general watchkeeping capabilities, his troubleshooting abilities and his understanding of engineroom operations along with the communications involved in these operations. The course will the course is to increase the student's awareness of proper procedures and watchstanding requirements under all phases of plant operation and increase their familiarity in operation of marine propulsion plants.

It is intended that the course time on the simulator trainer will enhance the engineering officer candidate's ability to perform watchkeeping safely and efficiently. The coordination and communication skills practiced in this course should serve to promote communication and teamwork both in the machinery spaces and with the bridge personnel on vessels at sea.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully complete our *Engine Watchkeeping (Operational Level) (STRCTR-723)* course will satisfy the following Tasks from Enclosure (2) of the OICEW NVIC 17-14(Ch-4) 1.1.A; 1.1.B; 1.1.E; 1.1.F; 1.2.A; 1.3.A; 1.3.B; 1.3.C; 1.3.D; 3.1.A; and 4.2.A.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry Standards
This course is intended for candidates for certification as officers in charge of the engineering watch OICEW in a manned engine room or designated duty engineers in a periodically unmanned engine room. The candidates must be approved by the United States Coast Guard to apply for such certification or have a minimum Oiler endorsement with 200 days of sea time.

Simulators and Training Tools
Full Mission Simulator

Teaching Facility
STAR Center, Dania Beach, Florida

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Instrumentation (STRCTR-230)

Controls I & II

Length

Controls I	10 days (excludes weekends)	Please Note: ALL Modules Must be Taken in Order for Full USCG Credit
Controls II	10 days (excludes weekends)	
Total	**20 days**	

Objective

This course is intended to cover the topics in the IMO Model Course 7.04 relating to Instrumentation and Controls. The theory of operation is the focus in the Control Systems I two-week introduction to control systems. The two weeks following, Control Systems II, covers the practical application of instrumentation and control systems aboard ship. In doing so, satisfy company, national and international regulations for candidates for certification as OICEW as follows:

- STCW Code A-III/1;

Upon completion of this course, the students will be knowledgeable and have demonstrated a proficiency in:

Control Systems I

- Control Systems
- Controller Action
- Pressure Measurement and Control
- Temperature Measurement and Control
- Level Measurement and Control
- Analytical Instrumentation
- Symbols and Diagrams
- Process Control Methods
- Instrument Calibration and Controller Tuning

Control Systems II

- Shipboard Automation Systems
- Control Systems
- Hydraulics
- Pneumatics
- Governors

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant, who successfully completed all modules (Controls I & II) comprising our *Instrumentation (STRCTR-230)* course, will satisfy the Control Systems training requirements of 46 CFR 11.329(a)(4)(xi) for STCW endorsements as OICEW on vessels powered by main propulsion machinery of 750 kW / 1,000HP Propulsion power or more; AND satisfy the specific TASKs from the OICEW NVIC 17-14: 6.1.E; 6.3.A; 7.5.A; 7.5.B; & 7.5.C. Applicants who have successfully completed our course need not present completed "Control Sheets" for these assessments in application for STCW certification."

Scope

This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards

This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speak and understands English.

Simulators and Training Tools

Full Mission Simulator

Please be prepared for class with the following:

- No extra class material required

Teaching Facility

STAR Center, Dania Beach, Florida

OICEW – Diesel Engine (STRCTR-734)

Length 15 days (excludes weekends)

Objective
Each student who successfully completes this course will satisfy the Motor Plants training requirements of 46 CFR 11.329(a)(4)(ix) for STCW endorsements as OICEW on vessels powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more. The objective of this course is to introduce the student to the basic principles of Motor Plants. Examination subjects for engineer officer endorsements, section Motor Plants: Main engines, AUX engines, Starting systems, Fuel systems, Drive systems, Control systems, Automation, Governors, Steam systems, Water Chemistry, Casualty control and Safety.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *OICEW - Diesel Engine (STRCTR-734)* course will satisfy:

- The Motor Plants training requirements of 46 CFR 11.329(a)(4)(ix) for STCW endorsement as OICEW on vessels powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more; AND
- The Motor Plants standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-5) Tasks 4.2.C, 4.3.C, 4.3.F, 4.3.I, 4.3.M, 4.3.N, 4.3.O, 4.3.P, 4.3.Q, 4.3.R, 4.3.S, 5.1.A, 5.2.A, 5.2.B, 5.2.C, 5.2.D,5.2.E, 5.3.A, 6.1.B, 6.1.D, 7.5.B, 8.3.A, 10.1.A and 10.1.B.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to all licensed engineers, apprentice engineers with at least 4 months seatime in the engine department, and/or, QMED or equivalent with 6 months seatime in the engine department.

Please be prepared for class with the following:

- No extra class material required

Simulators and Training Tools

- Kongsberg Desktop Engine Simulator
- Kongsberg Full Mission Slow Speed MAN MC90

Teaching Facility
STAR Center, Dania Beach, Florida

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Naval Architecture and Damage Control (OICEW) (STRCTR-864)

Length 5 days

Objective
The objective of this course is to introduce the student to the basic Naval Architecture and Damage Control and associated subjects and to cover subjects on Naval Architecture and Damage Control operations stated in 46 CFR 11.950. This course is part of an approved training program, which includes a combination of workshop skill training and seagoing service of not less than 12 months. Students will have attained knowledge in the following area concerning Naval Architecture and Damage Control:

- Ship Construction
- Ship Repair
- Flooding
- Dewatering
- Stability and Trim
- Damage Control

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who successfully completes our *Naval Architecture and Damage Control (OICEW) (STRCTR-864)* course will satisfy:

- The training required by STCW Code Section A-III/I and Table A-III/1 as amended 2010, for Maintain Seaworthiness of the Ship; AND
- The standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/I and Table A-III/1, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-8) Tasks 4.1.A, 11.1.A, 11.2.A, 11.3.A and 11.4.A.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to satisfy the training requirements of the STCW training table A–III/1 for the function Operation of main and auxiliary machinery and associated control systems specifically for the KUP for the basic construction and operation of machinery systems, and for the function Controlling the operation of the ship and care for persons onboard at the operational level specifically for the competence maintain seaworthiness of the ship.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speaks and understands English.

Please be prepared for class with the following:

- No extra class material required

Teaching Facility
STAR Center, Dania Beach, Florida

OICEW – Machine Shop (STRCTR-848)

Length 10 days (excludes weekends)

Objective
The objective of this course is to introduce the student to the basic Machine Tool operations and associated subjects and to cover subjects on Machine Tool operations stated in 46 CFR 11.950. This course is part of an approved training program, which includes a combination of workshop skill training and seagoing service of not less than 12 months. Students will have attained knowledge in the following area concerning Machine Tools:

- Shop Safety
- Mechanical Hardware
- Reading Drawings
- Manual operating tools
- Dimensional Measurement
- Materials
- Layout
- Preparation for machining operations
- Sawing Machines
- Drilling Machines
- Turning Machines
- Blueprint reading and sketching

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant successfully completing our *OICEW – Machine Shop (STRCTR-848)* course will satisfy:

- The training required by STCW Code Section A-III/1 and Table A-III/1 as amended for 2010, for the *Use of Hand Tools, Machine Tools and Measuring Instruments*; AND
- The standards of competence for Task 8.1.A. required by 46 CFR 11.329(a)(3) and STCW Code Section A-III/1 as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-4) for Officer in Charge of an Engineering Watch"

Scope
This course is intended to meet training requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speak and understands English.

Please be prepared for class with the following:

- No extra class material required

Teaching Facility
STAR Center, Dania Beach, Florida

OICEW – Maintenance & Repair (STRCTR-835)

Length 20 days (excludes weekends)

Objective
To introduce the student to the basic Maintenance and Repair at the operational level as stated in Table A-III/1 of the STCW Code for the competences:

1. Appropriate use of hand tools, machine tools and measuring instruments for fabrication and repair on board
2. Maintenance and repair of shipboard machinery and equipment

Students will have attained knowledge in the following area concerning Maintenance and Repair:

- Safety Measures
- Fastening
- Safe Emergency and temporary repairs
- Repair Leaking Pump
- Repack a leaking valve
- Replace a Flange Gasket
- Adjust excessively leaking Packing on rotary type pump
- Overhaul a centrifugal pump
- Adjust Reciprocating pump
- Repair and rebuild globe valve
- Heat exchanger - leaking tube
- Proper installation of ball/roller bearings – electric motor
- Pipes, fittings and valves

For all exercises in this course, we will take proper action to prevent safety and pollution violations.

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"Any applicant who has successfully completed our *OICEW - Maintenance & Repair (STRCTR-835)* course will satisfy: The standards of competence required by 46 CFR 11.329(a)(3); STCW Code Section A-III/1 and Table A-III/I, as amended 2010, meeting the National Assessment Guidelines from NVIC 17-14(Ch-5) Tasks 8.2.A, 8.2.B, 8.2.C, 8.2.D, 9.1.A, 9.1.B and 9.1.C. Applicants who have successfully completed your course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

Scope
This course is intended to meet USCG requirements as listed above in the USCG Approved and STCW Compliant Course Certificate section.

Entry standards
This course is open to students who have a need for such training as required by the United States Coast Guard and STCW as amended. Each student should be in good physical health and speak and understands English.

Teaching Facility
STAR Center, Dania Beach, Florida

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XI. MSC TRAINING PROGRAM

Anti-Terrorism Officer Level II (Afloat) Training

Length 5 days

Scope
Provide Anti-Terrorism Officer (ATO) with knowledge required to be primary advisor to the Master in matters of AT mission and to effectively assess, plan, execute and manage an Anti-Terrorism (AT) program.

Objectives
Provide ATO with concept and the principles of:

- Defense in depth to detect, deter, defend against a terrorist attack or mitigation of such an attack.
- Anti-terrorism tactics, techniques and procedures
- Develop AT Plans
- Manage AT Program
- Conduct Risk Assessments
- AT Awareness Training and Personal Protection Plans

The course will also cover prerequisite requirements for ATO Level I certification.

Entry Standards
Open to all AMO members/applicants assigned to MSC vessels who require this training in support of their onboard duties.

Periodicity
ATO II is required to be renewed every three (3) years.

Teaching Facility
STAR Center, Dania Beach, Florida

Basic CBR Defense

Length 1 day

Scope
The Military Sealift Command's (MSC) Basic CBR Defense course is for all seafarers. The purpose of this course is to inform seafarers of the hazards associated with the three pillars comprising weapons of mass destruction (chemical, biological, and radiological), how best to protect themselves and their ship from these hazards, and their own and shared responsibilities in a CBR environment.

Objectives
A trainee successfully completing this course will understand the triad of CBR survivability measures, equipment, detection, and decontamination that must be taken to protect the ship and the crew. A trainee will have a basic understanding of the shipboard CBR equipment, procedures, and the duties required to protect themselves and the ship when operating in a CBR environment. The primary focus of this course is the knowledge of personal protection equipment with an emphasis on survivability of the individual and the ship, and to impart confidence in the ability to survive and work in a contaminated environment for the rapid restoration of the mission.

Entry Standards
This course is open to all seafarers and prospective seafarers. All students shall meet the physical, educational, and linguistic standards and requirements set forth by the U.S. Coast Guard. For seafarers taking this course the wearing of facial hair, including beards, long sideburns, mutton chops, long mustaches, etc., that comes between the sealing periphery of a respirator face piece and face, or facial hair that could interfere with the MCU 2/P gas mask valve function **IS PROHIBITED.**

Teaching Facility
STAR Center, Dania Beach, Florida

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CBRD Officer

Length 5 days

Scope
The Chemical, Biological, Radiological, Nuclear-Defense (CBRD) Officer course is comprised of the following training:

- Introduction and Equipment Issue
- CBRD Warfare History and Threat Brief
- Types of Hazards of Radiation
- Radiological Survey and Decontamination Process
- IM-276/PD Personal Dosimeter
- Multifunction Radiac
- JLIS Suit and MK 50 Gas Mask
- Logarithmic Plotting
- Dose Tracking and classroom labs
- Nomograms
- Chemical Agents
- Chemical Self-Aid and Buddy Aide
- Chemical MOPP Levels
- Personal and Shipboard Decontamination
- M256A1 Chemical Detection Kit
- Joint Chemical Agent Detector (JCAD) & Improved Point Detection System-Life Cycle Replacement (IPDS-LR)
- Biological Agents
- Dry Filter Unit w/demonstrations
- Collective Protective System (CPS)
- CBRD Doctrine
- Counter Measure Wash Down System (CMWD) and Chemical Agent Hazard Assessment Guide (CHAG)

Objective
This course is approved by Military Sealift Command to enable successful students to act as a CBRN-D Officer on MSC owned and operated vessels to provide the necessary skills and abilities to perform the duties of a CBRN-D Officer in their responsibility for evaluating the CBRN risk to the vessel based on periodic threat information issued to vessels. The CBRN-D Officer will train the ship's crew in all aspects of CBRN by providing hands-on training events, briefs, new equipment updates, and drills. The CBRN-D Officer on all vessels will ensure that all CBRN-D detection, protection, and decontamination equipment is onboard before and during deployment.

Entry standards

- This course is required every five years, and successful completion of the annual refresher/indoctrination training is a prerequisite. All students must be "fit for duty" in accordance with USCG medical requirements.
- STAR Center Training Release and Waiver will be required.

Teaching Facility
All modules will be taught at STAR Center, Dania Beach, Florida.

Health & Safety Aspects of Marine Sanitation Devices

Length ½ day

Scope
Topics include MSC design and operation, sewage regulations, health hazards, clean-up and disinfection as well as required personal and safety equipment.

Objective
The course instills familiarity with sewage laws and regulations, MSD design and operation, and the prevention of illnesses and injuries that are associated with the MSD system.

Entry Standards
The course is open to anyone desiring further knowledge of MSC policies and procedures related to MSD operation.

Teaching Facility
STAR Center, Dania Beach, Florida

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Hearing Conservation Afloat

Length ½ day

Scope
Designed to thoroughly acquaint personnel with the elements of the Hearing Conservation Program IAW OPNAVINST 5100.19 series. Topics covered include fundamentals of sound, noise measurements, noise hazards aboard ship, medical aspects of hearing loss, hearing protection, and audiometric testing.

Objective
Upon completion of the course the student will be able to:

- Define the terms “sound”, “noise”, “intensity”, “decibel”, “attenuation”, and “noise weighting”.
- Describe the physiological elements associated with hearing.
- Explain the effects of noise exposure.
- Describe the different measurements of noise.
- List the elements of the Navy Hearing Conservation Program.
- Identify elements of audiometric examinations.
- Identify different types of hearing protection devices.
- Demonstrate proper selection and fitting of hearing conservation devices.

Teaching Facility
STAR Center, Dania Beach, Florida

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Heat Stress Afloat

Length ½ day

Scope
Identify the chain of command's responsibilities regarding the monitoring and control of shipboard heat stress, specific heat stress conditions, symptoms and preventive measures, and list the steps to properly operate the Web Bulb Globe Thermometer (WBGT), the 960 Heat Stress Monitor, and the Psychrometer.

Objective
Upon completion of the course the student will be able to:

- IDENTIFY personnel and their responsibilities for the heat stress program afloat.
- IDENTIFY the climactic and physiology factors of heat stress afloat.
- DESCRIBE the application, monitoring, causes, and location of heat stress afloat.

Teaching Facility
STAR Center, Dania Beach, Florida

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Helicopter Fire Fighting

Length 1 day

Scope
The goal of this course is to enable a ship to populate part of its flight deck organization with qualified mariners trained in helicopter firefighting and rescue techniques for the saving of life and suppression and extinguishment of fire and limit damage to ship and helicopter.

Objective
This course provides tailored team training for Civil Service Mariners (CIVMARs) and Contract Mariners (CONMARs), hereafter referred to as mariners, who may serve as members of a ship's flight deck organization. This course will introduce the mariner to some of the dangers associated with flight deck operations and the equipment and the procedures they will employ when serving as a member of the ship's flight deck organization. This course will discuss helicopter nomenclature and hazards associated with helicopter operations, classes of fire, personal protective equipment, flight deck firefighting equipment, helicopter pilot, crew, and passenger rescue procedures, helicopter fire suppression, and extinguishment procedures and techniques.

The mariner will be drilled in the procedures and techniques of pilot rescue and helicopter fire suppression and extinguishment. The mariner will be required to demonstrate proficiency in those procedures and techniques during live fire field exercises.

Entry standards
Prior to taking this course the student will have met the following requirements within the last 5 years:

1. USCG approved Standards of Training, Certification and Watchkeeping (STCW) Basic Safety Training certificate; or
2. USCG approved firefighting course; or
3. National Fire Protection Association (NFPA) equivalent course (Fire Fighter I);
4. At least 18 years of age; and
5. For those serving on US vessels:
   (a) Speak, read, and understand the English language in accordance with 46 CFR 13.111; and
   (b) Provide documented evidence of fulfilling the physical examination requirements in accordance with 46 CFR 12.15-5.

Teaching Facility
STAR Center, Dania Beach, Florida



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Marine Environmental Programs (MSC12)

Length ½ day (given in conjunction with CBRD)

Scope
The Environmental Protection program integrates MSC's environmental policy by focusing on four areas:

- Compliance with international, national, state and local environmental laws and regulations
- Pollution Prevention
- Spill Response Readiness
- Conservation

Objective
Environmental regulations and Navy policy impact MSC operations worldwide and compel MSC to manage its activities in a manner consistent with the protection and preservation of the environment. In order to accomplish this mission element, personnel must be made aware of the environmental laws and regulations established by international, Federal, State and local governments. The objective of this course is to present and enhance this awareness.

Entry standards
The course is open to any individual who wishes to increase knowledge of MSC policies and procedures.

Teaching Facility
STAR Center, Dania Beach, Florida

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Medical Care Person In Charge (STRCTR-307)

Length 5 days (After hours homework required)

Objective
Successful completion of the course will prepare the crew member to provide coordinated medical assistance for the crew members that are sick or injured while they remain on board. The goal of this training is to provide education and practicum for the student to meet the STCW Code competencies as a Medical Person-in-Charge. Upon completion the student will be able to:

1. Recognize life-threatening medical emergencies.
2. Recognize common medical problems.
3. Communicate with a medical doctor and follow medical orders as communicated.
4. Communicate effectiveness of shipboard treatments via radio communication.
5. Perform reassessment and evaluate care and then record findings on the medical record.
6. Understand the importance of infection control and prevention of transmission of communicable disease.
7. Keep accurate and detailed records of the inventory in the ship's hospital.
8. Document and plan care for the sick and injured while they remain on board.
9. Provide a knowledge base to coordinate activities for evacuation when medically necessary.

This Course is USCG Approved and STCW Compliant. The course certificate will state:
"Any applicant who has successfully completed our *Medical Care Person in Charge (STRCTR-307)* will satisfy:

- The Person in Charge of Medical Care training and standards of competence required by 46 CFR 12.621 for an STCW endorsement as Person in Charge of Medical Care; STCW Code Section A-VI/4 and Table A-VI/4-2, as amended 2010, meeting the National Assessment Guidelines from NVIC 02-04; AND
- The Management of Medical Care training requirements of 46 CFR 11.305(a)(3)(ix), 11.307(a)(3)(ix), 11.311(a)(3)(vi), 11.313(a)(3)(vi), and 11.315(a)(3)(ii); AND
- The Management of Medical Care standards of competence required by 46 CFR 11.305(a)(2), 11.307(a)(2), 11.311(a)(2), 11.313(a)(2) and 11.315(a)(2); STCW Code A-II/2 and Table A-II/2, as amended 2010, meeting the National Assessment Guidelines from NVICs 10-14(Ch-4), 11-14(Ch-4) and 03-18(Ch-2) Tasks 19.1, 19.2, and 19.3.

Applicants who have successfully completed our course need not present completed "Task Control Sheets" for these assessments in application for STCW certification."

This is provided student has completed a USCG approved Medical Care Provider course within 12 months prior to completion of this course.

Scope
To train the specified crew member(s) to provide medical assistance to the sick and/or injured while the patient remains on board. This level of training will prepare the crew member to take charge of medical care and learn how to assess and record signs and symptoms, coordinate treatment with Radio Medical Advice, and stabilize the wounded until medical care can be safely obtained. The advanced training candidate will learn a system to collect data, assess the patient, and communicate with a doctor ashore. The course will prepare the student to recognize specific problems and diseases and plan for care that will be provided in the ship's hospital. The course will reinforce knowledge gained in prior medical courses and introduce new competencies. The student will also be prepared with the aid of Radio Medical Advice to care for the female patient, death at sea, and communicable diseases. The specified crew member will be able to take appropriate action to provide care for injuries or sudden illnesses until more advanced medical care can be provided. The course will prepare the trainee in prevention of disease and improved health of crew members.

Entry standards
Must meet the STCW Code standards for deck officer licensing requirements at the management level.

Teaching Facility
STAR Center, Dania Beach, Florida

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Readiness Refresher

Length 2 days

Scope
This course is comprised of the following training:

- MSC approved 1-day Helicopter Fire Fighting
- Damage Control Refresher
- CBR Defense Refresher
- Marine Environmental Programs

All modules shall be completed in order to be awarded a completion certificate

Objective
This course is approved by Military Sealift Command to meet its operating company contract requirement for specific (5-year) refresher training in these areas.

Entry standards
In accordance with MSC direction this course is limited to those CIVMARs OR CONMARs that can prove their successful completion of an initial full (not refresher) course for all the following approved MSC course:

- Damage Control
- Basic CBR Defense

This course will provide initial training for:

- Helicopter Fire Fighting
- Marine Environmental Programs

Teaching Facility
STAR Center, Dania Beach, Florida

Security Watchstander (Advanced)

Length 1 day

Scope
This course is comprised of the following training:

- Advanced Handcuffing Techniques
- Mechanical Advantage Control Holds (MACHs)
- Close Range Subject Control (CRSC)
- Baton Training
- Take Downs

Objective
This course is approved by Military Sealift Command to enable successful students to act as watch standers on MSC owned and operated vessels and to provide the necessary skills and abilities to perform the duties of the gangway watch stander, roving patrol, and member of the security watch.

The course covers muscle memory skills required for Security Watchstanders and members of the ship's reaction force (SRF) that deteriorate over time and require constant practice to maintain capabilities.

Entry standards

- This course is required annually and successful completion of the Security Watchstander (Basic) course is a prerequisite. All students must be "fit for duty" in accordance with USCG medical requirements.
- STAR Center Training Release and Waiver will be required.

Teaching Facility
All modules will be taught at STAR Center, Dania Beach, Florida.

Security Watchstander (Basic)

Length 1 day

Scope
This course is comprised of the following training:

- Security Watch Organization / Use of Force / Deadly Force
- Communications & Surveillance
- Security Zones / Defense in Depth
- Gangway / Roving Patrol and Entry
- Concepts / Watch Turnover Procedures
- Searches / Handcuffing (with lab)
- Entry control special situations / Civil Disturbance
- Bomb Threat / Security Alert / Hostages

Objective
This course is approved by Military Sealift Command to enable successful students to act as watch standers on MSC owned and operated vessels and to provide the necessary skills and abilities to perform the duties of the gangway watch stander, roving patrol, and member of the security watch.

The course shall standardize watch stander training and procedures in accordance with U.S. navy training policy.

Entry standards
This course is required once in a career and SST graduates are “grandfathered”. All students shall be “fit for duty” in accordance with USCG medical requirements.

Teaching Facility
STAR Center, Dania Beach, Florida

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Shipboard Damage Control

Length 1 day

Objective
This course is intended to meet the damage control training requirements for personnel on MSC vessels. "This course is recognized as meeting Military Sealift Command's standards and content for Damage Control Training and the content of the U.S. Navy's General Shipboard Damage Control (K-495-0045) course."

All students participate in the hands-on practical exercises giving them familiarization and understanding of the various DC equipment and techniques. Upon completion of this 1-day course the student can integrate the knowledge, understanding and proficiencies obtained, along with the vessel's specific Damage Control Plans and ship specific equipment, into the required shipboard damage control training and drills documented under their respective safety management systems and procedures.

Scope

This course combines both classroom lecture and a series of practical exercises. The course covers the following knowledge, understanding and proficiencies:

- INTRODUCTION TO DAMAGE CONTROL
- DAMAGE CONTROL BASICS (SHORING)
- DAMAGE CONTROL BASICS (PLUGGING & PATCHING)
- DEWATERING & ACCESS EQUIPMENT
- DAMAGE CONTROL INVESTIGATIONS
- INCIDENT COMMAND SYSTEM (ICS)
- PRACTIAL LABS conducted at STAR Center Waterfront
    - Shoring
        - WTD
        - Hatch
    - Plugging
        - Bulkhead
    - Pipe patching
    - Dewatering

Entry standards/Prerequisites
This course is open to anyone eligible for employment on MCS vessels. Students need to be fit for duty.

Please be prepared for class with the following:
STAR will provide all necessary course materials and PPE.

Teaching Facility
STAR Center, Dania Beach, Florida

Ship Reaction Force

Length 3 days

Scope
This course is comprised of the following training:

Day One:
- Use of Force
- Organization / Equipment
- Communications / Weapons Safety

NOTE:** ***Students MUST pass to continue with course. No practice time afforded. Must hold current Small Arms pistol qualification.

Day Two:
- Close Quarters Combat / Tactical movement
- Room entry and tactical withdrawal
- Red gun drills

Day Three
- Force on Force Scenarios
  - Simunition

Objective
This course is approved by Military Sealift Command to provide tailored training for MSC civilian personnel who may serve as a member of the security reaction team. It introduces team members to the equipment and procedures they will use when responding to crisis situations.

Entry standards
- This course is required every three (3) years and successful completion of both the Security Watchstander (Basic) and Security Watchstander (Advanced) courses are prerequisite. All student shall be "fit for duty" in accordance with USCG medical requirements and be qualified and current in MSC Small Arms for 9mm pistol and shotgun.
- STAR Center Training Release and Waiver will be required.

Teaching Facility
STAR Center, Dania Beach, Florida

Small Arms Initial Qualification and Sustainment Qualification

Length 4 days

Scope
This course is approved by Military Sealift Command (MSC) as meeting both the initial qualification requirements and the sustainment qualifications in accordance with OPNAVINST 3591.1E. It is not a firearms training course.

Objectives
Upon completion of this course the student will be able to:

- Demonstrate knowledge, skills, and attitude necessary for handling a 9mm Beretta pistol in a safe manner.
- Demonstrate knowledge, skills, and attitude necessary for handling a 12-gauge Shotgun in a safe manner.
- Demonstrate knowledge, skills, and attitude necessary for handling a M14 rifle in a safe manner.

Entry standards

- Students must sign the Lautenberg Agreement attesting to no prior felony or domestic violence convictions.
- STAR Center Training Release and Waiver will be required.

Teaching Facilities

- STAR Center, Dania Beach, Florida
- Range Facility as required

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Water Sanitation Afloat

Length ½ day

Scope
This course is designed to introduce the student to the principles and procedures of the shipboard potable water sanitation program in preventing the occurrence of waterborne illnesses.

All personnel who fill, treat, store, distribute, and monitor potable water should be familiar with current policies and regulations.

Topics of discussion include:

- Equipment
- Sources of water
- Storage
- Filling & Distribution
- Treatment
- Testing & Monitoring
- Waterborne Illness

Objective
Upon completion of the course, the student will be familiar with the proper handling of shipboard potable water, including:

- Loading
- Treatment
- Disinfection
- Storage
- Testing
- Monitoring

Entry standards
The course is open to anyone seeking to enhance and expand their knowledge of MSC policies and procedures regarding Water Sanitation.

Teaching Facility
STAR Center, Dania Beach, Florida

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