COURSE CATALOG – 2019
Effective Date: January 1, 2019

ISO 9001
Certificate No. 38806

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www.star-center.com • email@star-center.com
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.

Brian D. Long  
Director, STAR Center  
School Official’s Name  
Title  
School Official’s Signature

Gerard C. Pannell  
Director, Member Training  
School Official’s Name  
Title  
School Official’s Signature

January 25, 2019  
Expiration Date: As superseded

Date

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 9001:2008 certified training center. The primary mission is to provide the worldwide maritime industry with quality maritime Simulation, Training, Assessment & Research 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
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 9001:2008 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, tardies, 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) week’s 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 http://www.star-center.com/forms/Schedule.pdf

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

13. **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.

14. **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.

15. **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.

16. STAR Center does not discriminate on the basis of any race, color, national and ethnic origin or sex.
<table>
<thead>
<tr>
<th>Room Number</th>
<th>Primary Function</th>
<th>Size in Ft²</th>
<th>Max. # of Students</th>
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<td>Mechanical Lab</td>
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<td>Gas Turbine / Refrigeration Clsrm / Computer Lab (12 x student PCs)</td>
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<td>Deck Self-Study room/ Computer Lab (10 x student PCs)</td>
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<td>Tankerman Classroom</td>
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<td>Welding / Neptune / GMDSS Classroom (Poseidon Simulation) (6x student PCs)</td>
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<td>Deck Simulator Debrief Room</td>
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I. General Courses
**Advanced Chemical Tankers (STRCTR-714)**

**Length** 5 days

**Objective**

Each student who successfully completes this course will be knowledgeable of and have proficiency 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
- Tanks, Piping and Valves
- Pollution Prevention
- Cargo Handling and Ballast Procedures
- Tank Cleaning Operations
- Ship to Shore Interface
- Emergency Procedures

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

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Advanced Chemical Tanker (STRCTR-714) course will satisfy:

a) the training requirements of 46 CFR 13.605(a)(2), 13.605(b)(2), 13.605(c)(2) for Advanced Chemical Tanker Cargo Operations; AND  
b) the training requirements of 46 CFR 13.120(a)(2), 13.120(b)(2), 13.120(c)(2), 13.120(d)(2) for renewal of any tankerman (DL) endorsement and STCW endorsement for Chemical Tanker Operations; AND  
c) the competences of Table A-V/1-1-3 of the STCW Code, as amended 2010, for Chemical Tanker Operations; AND  
d) the competences of Table A-V/1-1-1 of the STCW Code, as amended 2010, for Basic Training for Oil and Chemical Tanker Operations.”

**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 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
Advanced Fire Fighting Revalidation (STRCTR-777)

**Course 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 of and have proficiency in Advanced Firefighting Revalidation and meeting this requirement 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 training revalidation 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.; AND 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. from NVIC 09-14, Advanced Fire Fighting. 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
Broward Fire Academy, Davie, Florida
Fire Fighting Classes

Facial Hair – No Interference with Facepiece Seal

STAR Center carries out the practical competency demonstrations required for fire fighting certification in partnership with the Broward Fire Academy. 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:

   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.

   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.

   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.
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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. 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 provides an introduction to 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.

Teaching Facility
STAR Center, Dania Beach, Florida
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.

Teaching Facility
STAR Center, Dania Beach, Florida
Fire Fighting Classes
Facial Hair – No Interference with Facepiece Seal

STAR Center carries out the practical competency demonstrations required for fire fighting certification in partnership with the Broward Fire Academy. 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.
Basic Fire Fighting (STRCTR-53)

**Length**  2 days

**Objective**

Each student who successfully completes this course will be knowledgeable of and have proficiency 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 engineroom 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:


**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.

**Teaching Facility**

Broward Fire Academy
First Aid & CPR (STRCTR-197)

**Length**  1 day

**Objective**
Each student who successfully completes this course will be knowledgeable of and have proficiency in Elementary First Aid-CPR and meeting this requirement 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 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 a 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**
STAR Center, Dania Beach, Florida
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:**

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. 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 as 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.

**Teaching Facility**

STAR Center, Dania Beach, Florida
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 as 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.

Teaching Facility
STAR Center, Dania Beach, Florida
Basic Training Revalidation (STRCTR-718) (1 day)

**Course Length** 1 day

**Objective**

Each student who successfully completes this course will be knowledgeable of and have proficiency in Personal Survival Techniques and Fire Prevention and Fire Fighting Revalidation and will meet this requirement 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 liferaft 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:**

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who successfully completes our Basic Training Revalidation (STRCTR-718) course will satisfy the continued competency requirements for Personal Survival Techniques and Fire Prevention and Fire Fighting in STCW as amended 2010, Section A-V1/1, 46 CFR 11.302(d) and 46 CFR 12.602(d), provided that they have at least 1 year of sea service in the last 5 years.”

**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 SWIM SUIT FOR POOL SESSION.
- WEAR **LONG PANTS, AND SOCKS** FOR FIREFIGHTING; ALL OTHER EQUIPMENT PROVIDED BY THE FIREFIELD

**Teaching Facility**

STAR Center, Dania Beach, Florida
Broward Fire Academy, Davie, Florida
Personal Survival Techniques Revalidation (STRCTR-791)

Length ½ day

Objective

Each student who successfully completes this course will be knowledgeable of and have proficiency in Personal Survival Techniques Revalidation and meeting this requirement 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 liferaft while wearing a lifejacket;
   iv. Swim while wearing a lifejacket; and
Keep afloat without a lifejacket.

The certificate will state:

“All applicant who has successfully completed our Personal Survival Techniques Revalidation (STRCTR-791) course will satisfy the following:

- Any applicant who has successfully completed our Personal Survival Techniques Revalidation (STRCTR-791) course will satisfy the continued competency requirements for Personal Survival Techniques in STCW Section A-VI/1, 46 CFR 11.302(d)(1) and 46 CFR12.602(d)(1), provided that they have at least 1 year of sea service in the last 5 years; AND


Applicants who have successfully completed this course need not present completed Record of Assessment 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.

Teaching Facility

STAR Center, Dania Beach, Florida
Basic Training Refresher (STRCTR-68) (3 days)

**Course Length** 3 days

**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.

**Objective**
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 engineroom 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 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 SWIM SUIT FOR POOL SESSION.
- WEAR **LONG PANTS, AND SOCKS** FOR FIREFIGHTING; ALL OTHER EQUIPMENT PROVIDED BY THE FIREFIELD

**PSSR Refresher Module I (2 hours)**

**Course 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 of and have proficiency 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)

Course Length 1 day

Scope

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency in Elementary First Aid-CPR Refresher Training and meeting this requirement 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.

Teaching Facility
STAR Center, Dania Beach, Florida

Personal Survival Techniques Refresher Module III (6 hours)

Course Length 1 day

Scope
**Objective**
Each student who successfully completes this course will be knowledgeable of and have proficiency in Personal Survival Techniques Refresher Training and meeting this requirement 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 liferaft 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 liferaft
   ix. Steam a sea anchor
   x. Operate survival craft equipment
   xi. Operate location devices including radio equipment

**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)**

**Course 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 of and have proficiency 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 engineroom 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.
Fire Fighting Classes
Facial Hair – No Interference with Facepiece Seal

STAR Center carries out the practical competency demonstrations required for fire fighting certification in partnership with the Broward Fire Academy. 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.
Combined Basic & Advanced Fire Fighting (STRCTR-125)

**Length**  5 days

**Objective**

Conducted at Broward Fire Academy’s state-of-the-art marine fire fighting training center in Fort Lauderdale, Florida, the students have the advantage of on-site, multiple, live fire exercises. 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 fire fighting.

Each student who successfully completes this course will be knowledgeable of and have proficiency 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:**

“All applicant who has successfully completed our Combined Basic & Advanced Fire Fighting course will satisfy the following USCG requirements 1) Fire Prevention and Fire Fighting per STCW Code Section A-VI/1; 2) Advanced Fire Fighting per STCW Code Section A-VI/3; 3) Fire Prevention and Fire Fighting per 46 CFR 11.302 (a)(2) and 46 CFR 12.602 (a)(2); 4) Basic and Advanced Fire Fighting per 46 CFR 11.201(h)(2) and 46 CFR 11.201(h)(3); 5) Advanced Firefighting per 46 CFR 11.303 (a); and 6) Firefighting 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). 7) The specific TASKs from the following national guidance documents: a) Task 17.3.A from NVICs 10-14 and 11-14 for Master/Chief Mates; b) Tasks 13.1.B and 13.1.C from NVIC 15-14 for Chief Engineer/Second Engineering Officer; c) Tasks 14.1.A, 14.2.A, 14.3.A and 14.4.A from NVIC 12-14 for OICNW; d) Task 12.1.A from NVIC 17-14 for OICEW 8) Basic Firefighting Refresher only requirements of 46 CFR 11.302(e) and 12.6029(e) ; 9) Advanced Firefighting Refresher requirements for 46 CFR 11.201(h)(1) and 11.303(e)”

**Scope**

This 5-day combined basic and advanced shipboard fire fighting course provides extensive knowledge, and instruction in a variety of marine fire fighting 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**

Broward Fire Academy
Combined Basic & Advanced Low Flash Point Fuel Operations
(STRCTR-807) (IGF Code/LNG Fuel)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency in basic and advanced IGF Code LG fueled vessels training. 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 will state:

“The Combined Basic & Advanced Low Flash Point Fuel Operations (STRCTR-807) course was found to meet the standard of competence of section A-V/3, table A-V/3-1, of the STCW Code as amended for basic training for ships subject to the IGF Code; And, the standard of competence of Section A-V/3, Table A-V/3-2 of the STCW Code as amended for advanced training for ships subject to the IGF Code.”

Scope
This course is intended to meet the training requirements of regulation I/14 of the STCW Convention for seafarers responsible for designated safety duties associated with the care, use or in emergency response to the fuel on board ships subject to the IGF Code and also the training requirements of regulation I/14 of the STCW Convention for masters, engineer officers and any person with immediate responsibility for the care and use of fuels on ships subject to the IGF Code.

Entry standards
This course is open to students who have been qualified and certified according to the standards of competence specified in section A-V/1-2, paragraphs 1 and 2 for service on liquefied gas tankers, students who have been qualified and certified according to the standards of competence specified in section A-V/1-2-2 of the STCW Code for service on liquefied gas tankers, and students who have 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. Students also must have completed sea going service of three months in the previous five years on board tanker carrying as cargo fuels addressed by the IGF Code.

Teaching Facility
STAR Center, Dania Beach, Florida


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 proficiency 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 successfully achieved the level of competency, knowledge, understanding and proficiency, specified 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
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 of and have proficiency 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

AND: 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:**

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. 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, Table A-V/2 and Paragraph 3 of Section AV/2; AND, the Passenger Safety, Cargo Safety and Hull Integrity training requirements of Paragraph 4 of Section A-V/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.

**Teaching Facility**
STAR Center, Dania Beach, Florida
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 Paragraph 1 of Section A-V/2; the Safety Training requirements of and Paragraph 2 of Section A-V/2 of the STCW Code, as amended; AND satisfy the requirements of 46 CFR 11.1005 and 11.1105 for Ro-Ro Passenger Ships and non Ro-Ro Passenger Ships.”

**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
**Fast Rescue Boat (STRCTR-193)**

**Length**  4 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:**

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. 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
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.

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

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Global Maritime Distress & Safety System (GMDSS) (STRCTR-210) course with a passing grade of at least 75% will satisfy the GMDSS training requirements of 46 CFR 11.202(d)(ii) and Table A-IV/2 of the STCW Code, as amended.”

**Scope**
The Global Maritime Distress and Safety System Course (GMDSS) will cover subject material relevant to successful operation of GMDSS equipment aboard merchant ships, whose implementation was mandated on February 1, 1999, in the U.S. and worldwide.

**Entry standards**
Student must be a U.S citizen, or USCG licensed officer status, or of citizenship status eligible for FCC license or the proper equivalent documentation to satisfy the international requirements.

**Teaching Facility**
STAR Center, Dania Beach, Florida
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 1/12 and Code Section A-I/12. The course is also designed to meet the requirements of; IAW 46 CFR 13.203 and IAW 46 CFR 13.203 (b).

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

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. Any applicant who has successfully completed your Liquefied Gas Tanker (Membrane) Cargo Operations Simulator (STRCTR-256) course will:

a) Satisfy the competency requirements of Section A-V/I-2, Table A-V/1.2.1 for Basic Training for Liquefied Gas Tanker and Table A-V/1.2.2 for Advanced Training for Liquefied Gas Tankers of the STCW Code and of46 CFR Part 13.209, 13.309, 13.409 or 13.509 for any tankerman endorsement valid for Liquefied Gases PROVIDED applicant has also successfully completed an approved Liquefied Gas Tanker Cargo Course compliant with 46 CFR 13.121(e)(2); AND

b) Satisfy the training requirements of 46 CFR 13.120 for renewal of a Tankerman-PIC-LG endorsement and applicant must still satisfy the requirements of 46 CFR 10.227; AND

c) Receive credit for one commencement of loading and one completion of loading which may be applied toward satisfying the requirements in 46 CFR 13.203; AND

d) Receive credit for one commencement of discharge and one completion of discharge which may be applied toward satisfying the requirements in 46 CFR 13.203; AND

e) Receive credit for one loading and one discharge which may be applied toward satisfying the requirements of 46 CFR 13.203.”

**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 analyzed.
- 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.

**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**
Center, Dania Beach, Florida
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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. 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-II/2, and Table A-III/2 of the STCW Code, as amended 2010; and,

**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

**Teaching Facility**
STAR Center, Dania Beach, Florida
Maritime Security Awareness (STRCTR-561)

Length 1 day

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency 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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. 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 paragraphs 1-4 of section A-VI/6 and Table A-VI/6-1 of the STCW Code as amended 2010, for an STCW endorsement for Security Awareness.”

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.

Teaching Facility
STAR Center, Dania Beach, Florida
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:

“All applicant who has successfully completed our Proficiency in Survival Craft (STRCTR-372) course will satisfy and has satisfied the Survival Craft training requirements of Section A-VI/2 and Table A-VI/2-1 of the STCW Code and 46 CFR 12.10-3(a)(6) for any endorsement as Lifeboatman; And if presented within one year of the completion of training, the written and practical examination requirements of 46 CFR 12.10-5 for a Lifeboatman endorsement and the written “Survival Craft” examination requirements for service on vessels not equipped with lifeboats.”

Scope
This course is intended to meet the requirements as 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
**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
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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. 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.

Teaching Facility
STAR Center, Dania Beach, Florida
**Tank Ship Dangerous Liquids (Classroom) (STRCTR-502)**

**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 of and have proficiency 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:**

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Tank Ship Dangerous Liquids (STRCTR-502) course will:

- Satisfy the cargo course requirements of 46 CFR 13.409 and may be issued an endorsement as Tankerman-Assistant (DL); AND
- Satisfy the Basic Oil and Chemical Tanker training requirements of Section A-V/I Table A-V/I, 1.1 of the STCW Code, as amended; AND
- Satisfy the training requirements of 46 CFR 13.209, 13.309 or 13.509 for a Tankerman (DL) endorsement; AND
- Satisfy the training requirements of 46 CFR 10.227(d)(8)(i)(C) for the renewal of a Tankerman PIC (DL) endorsement as.”

**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
**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 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 of and have proficiency 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 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 Dangerous Liquids (Simulator) (STRCTR-503) course will:

- Satisfy the cargo course requirements of 46 CFR 13.409 and may be issued an endorsement as Tankerman-Assistant (DL); AND
- Satisfy the Basic Oil and Chemical Tanker training requirements of Section A-V/I Table A-V/1.1 of the STCW Code, as amended; AND
- Satisfy the training requirements of 46 CFR 13.209, 13.309 or 13.509 for a Tankerman (DL) endorsement: AND
- Satisfy the training requirements on 33 CFR 157.152(c)(2) for crude oil wash operations; AND
- Satisfy the training requirements of 46 CFR 10.227(d)(8)(i)(C) for the renewal of a Tankerman PIC (DL) endorsement as; AND
- Receive credit for two loadings and two discharges which may be applied toward satisfying the requirements of 46 CFR 13.203(b)(1); AND
- Receive credit for one commencement of loading and one completion of loading which may be applied toward satisfying the requirements in 46 CFR 13.203(b)(2); AND
- Receive credit for one commencement of discharge and one completion of discharge which may be applied toward satisfying the requirements in 46 CFR 13.203(b)(3).”

**Scope**
This is a simulator course that is intended to meet the Tank Ship Dangerous Liquids (Simulator) (STRCTR-S03) 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 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
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 will satisfy the training requirements of Section A-V/1-2 of the STCW Code, as amended, AND of 46 CFR Part 13.107, 13.109 or 13.120 for any original or renewal Tankerman Person-In-Charge (LG) endorsement. This course is compliant with IMO Model Course 1.06.

This course is also approved by ABS Consulting as meeting all the requirements for the Society of International Gas Tanker & Terminal Operators Ltd., LNG Shipping Suggested Standards – Guidance and Best practices for the LNG Industry in the 21st Century, First Edition, November 2005. 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
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-1/6;
- Training and Assessment
- STCW Code A-1/6;
- 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 Train the Trainer and Assessor training requirements of 46 CFR 10.402(b)(2)(iii)(A), 10.405(a)(1) and 46 CFR 10.407 (c)(5)(i). We approve completion of this course as satisfying the requirement for instructors and assessors as stated in Section A-I/6, paragraph 7, of the STCW Code, as amended 2010 and the guidance regarding Qualified Instructors as stated in NVIC 03-14, and Qualified Assessors as stated in NVIC19-14.”

Scope
This course is intended to meet the 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 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
**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.

**The course certificate will state:**

“All applicant who has successfully completed our Vessel & Company Security Officer (STRCTR-572) course will satisfy and is in compliance with the Guidelines for Maritime Security Training Course Providers, reference Federal Register February 8, 2005 (Volume 70, Number 25). The course is also in compliance with: a) Regulations 13.1 and 13.2 (Part A and B) of the International Ship and Port Facility Security (ISPS) Code; AND b) The Maritime Transportation Security Act of 2002; AND c) United States Coast Guard regulations contained in 33 CFR Chapter 1 Subchapter H; AND d) The mandatory training requirements of 33 CFR Part 104; AND e) The STCW Code Chapter VI, Section A-VI/5 and Table A-VI/5; AND f) IMO Model Course 3.20 Company Security Officer (2011 editions); AND g) Model Course MTSA 08-01 Vessel Security Officer (2008 edition).”

**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**

STAR Center, Dania Beach, Florida
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 training 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).

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 training requirements of 46 CFR 12.625(a)(1) and STCW Table A-VI/6-2 for an STCW endorsement as Vessel Personnel with Designated Security Duties.”

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
II. MEDICAL COURSES
Alcohol Screening Test Technician (QEDs)

Course Length  ½-day

Objective
This course is intended to insure that students who successfully complete this course will be knowledgeable of and have proficiency in 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 Collections

The course completion certificate will state:
“Alcohol Screening Test Technician (STT) and Alcohol Screening Device (ASD) Proficiency Course” The 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.

Teaching Facility
STAR Center, Dania Beach, Florida
**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 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.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Breath Alcohol Testing Program-
Alco-Sensor III and / or IV

Length  ½ day

Scope
This course is intended to train mariners on the breath alcohol device that will used to perform a
non-DOT breath sample screening for the presence of alcohol as stated in CFR 46 Sec 122, 46 CFR
Part 4, Part 5, Part 16.

Objective
The goal of the program is to provide training in:
- CFR procedural requirements
- Conforming products list
- Evidential Breath Alcohol Testing devices (EBT)
- Procedures for screening tests
- Use of non-DOT form (five scenarios)
- Demonstrate proficiency in operating the EBT that will be used for alcohol testing
- Interpretation of results
- Circumstances under which records are maintained and limitations regarding disclosure
  of records to unauthorized persons

Entry standards
There are no restrictions on who can become a breath alcohol testing device operator. The
knowledge of the CFRs and training on the device can be grasped by anyone of average competence
providing they participate in class and demonstrate competence.

Teaching Facility
STAR Center, Dania Beach, Florida
First Aid & CPR (STRCTR-197)

**Length**  1 day

**Objective**
Each student who successfully completes this course will be knowledgeable of and have proficiency in Elementary First Aid-CPR and meeting this requirement 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 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 a 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**
STAR Center, Dania Beach, Florida
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
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 Medical Care Person in Charge 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), 11.315(a)(3)(ii); and 46 CFR12.621(a)(1) and (2); and Table A-VI/4-2 of the STCW Code, as amended 2010 for an STCW endorsement as Person in Charge of Medical Care.
- The CPR training requirements of 46 CFR 11.201(ii)(iii) and 46 CFR 11.201(e )(j)(2)(iii)."

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
Medical Care Provider (STRCTR-310)

Length 3 days

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency 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:

- STCW Code Table A-VI/4-1; AND
- the competence “Apply immediate first aid in the event of accident or illness on board” from the National Assessment Guidelines for Table A-VI/4-1 of the STCW code as amended; AND
- the competency requirements of 46 CFR 12.619(a)(2); AND
- the Medical First-Aid Provider training requirements of 46 CFR 11.309(a)(4)(i); 46 CFR 11.317(a)(3)(i); 46 CFR 11.319(a)(4)(i); 46 CFR 11.329(a)(4)(i); 46 CFR 11.335 (a)(3)(i); and 46 CFR 12.619 (a)(1); AND
- the practical assessments conducted in this course are the specific tasks of the National Assessment Guidelines found in NVIC 12-14 as task: 16.1.A and NVIC 17-14 as task: 14.1.A”

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.

Teaching Facility
STAR Center, Dania Beach, Florida
III. DECK COURSES
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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. 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 CFR11.319 (a)(4)(vii); and 46 CFR11.321 (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; AND the application of leadership and teamwork 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 Tasks For Officer in Charge of a Navigational Watch on Vessels of 500 GT or More: 18.1.A; 18.1.B; 18.1.C; 18.2.A. 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.”

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

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.

Teaching Facility
STAR Center, Dania Beach, Florida
Advanced Shiphandling for Masters

Length  5 days

Scope
In accordance with the specified company’s policies and regulations every candidate for certification as master and staff captain of commercial ships shall be required to demonstrate the competence to maneuver and handle a ship in all conditions.

This is a company-specific course.

Purpose
The purpose of the course is to provide students with theory and training in advanced shiphandling and in doing so, satisfy company regulations for candidates for certification as master or staff captain.

Entry Standards
The course is open to students who have a need for such training as required by their company. Students should hold a STCW certification as “Officer in Charge of a Navigational Watch” or equivalent, have experiential background along with the following:

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

Teaching Facility
STAR Center, Dania Beach, Florida
Advanced Shiphandling for Third Mates (STRCTR-23)

**Length** 10 days (excludes weekends)

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

- 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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Advanced Shiphandling for Third Mates (STRCTR-23) course and presents their Certificate of Training within five years of the completion of training, will receive 60 days sea service credit that may be used for a raise in grade from Third Mate of Ocean or Near Coastal Steam or Motor Vessels of Any Gross Tons to Second Mate or Near Coastal Steam or Motor Vessels of Any Gross Tons.”

**Scope**
This course is intended to meet the 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.

**Teaching Facility**
STAR Center, Dania Beach, Florida
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.

**Entry standards**
Student minimum prerequisite is:
- Hold a valid license as master or mate.

**Teaching Facility**
STAR Center, Dania Beach, Florida
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.

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.

Teaching Facility
STAR Center, Dania Beach, Florida
Coming Soon
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 of and have proficiency 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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Basic Polar Code Operations (STRCTR-820) Course will satisfy the training requirement and standard of competence of Section A-V/4 and Table A-V/4-1 of the STCW Code as amended 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 take into account 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.

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.

Teaching Facility
STAR Center, Dania Beach, Florida
Bridge Resource Management (3-day) (STRCTR-80)

Length  3 days

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

- Human Factors
  - principles and purpose of Bridge Resource Management and Human Factors
- Voyage Planning
  - principles and responsibilities associated with proper voyage planning
- Bridge Organization and Procedures
  - principles and purpose of Bridge Organization and Procedures
- Situational Awareness
  - principles and responsibilities associated with situational awareness and error trapping
- Multi-cultural Diversity
  - principles and responsibilities associated with multi-cultural diversity
- Communications
  - principles and responsibilities associated with proper and effective communications
- Pilot Bridge Team Integration
  - principles and responsibilities associated with proper Pilot and bridge team integration
- Stress
  - principles and responsibilities associated management of stress and distractions
- Fatigue
  - principles and responsibilities associated with fatigue and circadian rhythm
- Leadership
  - principles and responsibilities associated with fatigue and circadian rhythm

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

"Any Applicant who has successfully completed our Bridge Resource Management (24-Hour) (STRCTR-80) course will satisfy:

a) the training requirements of 46 CFR 11.309(a)(4)(vii); 11.319(a)(4)(vii); 11.321 (a)(3)(iv); AND
b) the competence “Maintain safe navigation through the use of information from navigation equipment and systems to assist command decision making” of Table A-II/2 for bridge teamwork; AND

c) the successful demonstration of assessment 5.3.A of the National Assessment Guidelines for Table A-II/2 of the STCW Code.

Applicants who have successfully completed this course need not present completed “Control Sheets” for these assessments in application for STCW certification. Any approved instructor for this course is authorized to sign-off for a successful demonstration on the students’ assessment “Control Sheets”.

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.

Teaching Facility
STAR Center, Dania Beach, Florida
Dynamic Positioning-SIMULATOR

**Length**  5 days

**Objective**
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:**
“Any applicant who successfully completes our Dynamic Positioning-Advanced course will satisfy the DP training and demonstration of competence requirements of Nautical institute’s Dynamic Positioning Operator’s Training and Certification Scheme, Offshore Training and Certification, version 1.1, 2015, **Phase C** including; Practical Operation of the DP System, DP Operations, DP Alarms, Warnings and Emergency Procedures and; Nautical Institute’s D.P. Examination System, version 1.1.1, 2015 to ensure operations are continued or terminated safely IAW Section B-V/f of the STCW Code as amended.”

**Scope**
The intention of the DP Simulator Course is to build on that experience, 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.

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

**Teaching Facility**
STAR Center, Dania Beach, Florida
Dynamic Positioning-INDUCTION

Length  5 days

Objective
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 have an understanding of the practical operation of associated equipment, including position reference systems. He/she should be able to recognize and respond to the various alarms, warning and information messages. He/she 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:

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

- DP Control Station
- Power Generation and Management
- Propulsion Units
- Position Reference Systems
- Heading Reference Systems
- Environmental Reference Systems
- DP Operations
- Practical Operation of a DP System
- External Forces Reference System

There will be nine (9) 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.

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. See appendix D, Additional Reading, for more information.

Teaching Facility
STAR Center, Dania Beach, Florida

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Dynamic Positioning-REVALIDATION

Length  5 days

Objective
The course is intended for those who have already been issued a DPO certificate from The NI but are unable to revalidate their DPO certificate due to insufficient DP sea time. The overall course aim is to update the DPO’s with the latest rules and regulations, position references and sensors, known DP incidents and lessons learned. At the end of the course, the student will:
• Have acquired knowledge of the latest rules and regulations
• Have acquired knowledge of the latest developments within sensors and PRS
• Have acquired knowledge of the latest relevant DP incidents and why they occurred
• Be able to recognize the various alarm, warning and information messages
• Carry out operational planning, risk assessment and hazard identification tasks
• Set up the DP system for a particular task/operation
• Decide on courses of action because of systems failure

The course certificate will state:
“Any applicant who successfully completes our Dynamic Positioning-Revalidation course will satisfy the DP training and demonstration of competence requirements of Nautical institute’s Dynamic Positioning Accreditation and Certification Scheme Standard, January 2017, Revalidation Course including; rules and regulations, developments within sensors and PRS, DP incident case studies, alarms and messaging system, operation planning, risk assessment and hazard identification, set up DP for operation and failure handling and has successfully passed the NI online theoretical exam and the practical exam simulation in accordance with NI requirements.

Scope
The intention of the DP Revalidation Course is to provide an alternative route to revalidation.

Entry standards
Entry standards
The minimum entry requirement is a DPO certificate issued by The NI. DPO Certificates issued by the NI are valid for a 5 year period and normally require 150 days DP time to be renewed.

If the participant is completing this course for the first time, there is no minimum DP sea time requirement to revalidate the DPO certificate. If the participant is completing the course for a second or subsequent time, a minimum of 28 days DP sea time will be required to revalidate. This DP time may be completed prior to or after the revalidation course. Where the participant subsequently revalidates by completion of the full sea time requirement of 150 DP sea time days, the next revalidation may be undertaken as if for the first time.

The Revalidation Course may be completed up to 6 months before the revalidation date set by The NI and the certificate will be valid for a period of 12 months only.

Teaching Facility
STAR Center, Dania Beach, Florida
**Electronic Chart Display Information Systems (ECDIS) (STRCTR-179)**

**Length** 5 days

**Objective**

Each student who successfully completes this course will be knowledgeable of and have proficiency in ECDIS. 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:**

“...This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Electronic Chart Display Information System (ECDIS) (STRCTR-179) course will satisfy the ECDIS training requirements within 46 CFR 11.305; 46 CFR 11.307; 46 CFR 11.309; 46 CFR 11.311; 46 CFR 11.313; 46 CFR 11.315; 46 CFR 11.317; 46 CFR 11.319; and 46 CFR 11.321; AND; The specific tasks from the National Assessment Guidelines found in NVIC 12-14: 4.1.A, and 4.2.A. The specific tasks from the National Assessment Guidelines found in NVIC 10-14 and NVIC 11-14: 6.1.A, 6.2.A, 6.3.A, 6.4.A, 6.5.A, 6.6.A and 6.7.A. Applicants who have successfully completed our course need not present completed “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.

**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
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.

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.

Teaching Facility
STAR Center, Dania Beach, Florida
Senior Deck Officer Advanced Shiphandling

**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 simulation on the 360º Full Mission bridge.

**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.

**Entry standards**
Must have sailed as chief mate unlimited.

**Teaching Facility**
STAR Center, Dania Beach, Florida
**Towing Officer Assessment Record (TOAR)**

**Length**  5 days

**Scope**
In accordance with USCG NVIC 4-01, “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 4-01.

**Entry Standards**
The program is open to students who have a need for such training as required by the United States Coast Guard NVIC 4-01. 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.

**Teaching Facility**
STAR Center, Dania Beach, Florida
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.

**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.

**Teaching Facility**
STAR Center, Dania Beach, Florida
**Visual Communications (Flashing Light) (STRCTR-542)**

**Length** 1 day

**Objective**

Each student who successfully completes this course will be knowledgeable of and have proficiency 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:**

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Visual Communications (Flashing Light) (STRCTR-542) course will satisfy the Visual Signaling requirements of 11.309(a)(4)(vi) and 46 CFR 11.319(a)(4)(vi) and will be considered to have successfully completed specific tasks of the National Assessment Guidelines found in NVIC 12-14 Tasks 8.1.A and 8.2.A for an STCW endorsement as Officer in Charge of a Navigational Watch on Vessels of 500 GT or more.”

**Scope**

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

**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**

STAR Center, Dania Beach Florida
Watchstanding Skills Standardization & Assessment Program

**Length** 5 days

**Objective**
The program objective is to standardize and validate deck officers 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.

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

**Teaching Facility**
STAR Center, Dania Beach Florida
IV. DECK UPGRADE AT THE MANAGEMENT LEVEL (STCW 2010)
Advanced Cargo Handling & Stowage (Management Level)
(STRCTR-13)

Course Length  5 days

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 appropriate 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:


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.

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

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**Advanced Celestial Navigation (Management Level) (STRCTR-110)**

**Length** 5 days

**Objective**
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 training requirements of Table A-II/2 of the STCW Code as amended 2010. Until December 31, 2016, mariners may use the assessments listed from NMC Policy Letter 04-02; M-1-2A; M-1-2B; M-1-2C; M-1-2D; M-1-2E; and M-1-2F. The following practical assessments performed during this course have been determined to be equivalent of National Assessment Guidelines TASK’s, as documented in NVIC 10-14 Tasks for Master and Chief Mate on Vessels of 2,000 GT or More (Management Level): 2.1.A; 2.1.B; 2.1.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 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](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
Advanced Meteorology (STRCTR-18)

Upgrade: Advanced Meteorology

**Length**  5 days

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

“This Course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our 40-hour Advanced Meteorology course will satisfy: 1. Advanced Meteorology training requirements of 46 CFR 11.305(a)(3)(iii) and 11.307 (a)(3)(iii) for STCW endorsements as Master or Chief Mate on vessels of 3,000 GT or more AND, 2. 46 CFR 11.311 (a) (3)(iii) and 11.313(a)(3)(iii) for STCW endorsements as Master or Chief Mate on vessels of more than 500 GT and less than 3,000 GT; AND, 3. 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-II/2, as documented in NVICs 10-14 and 11-14: 7.1.A; 7.2.A; 7.3.A; 7.4.A; 7.4.B; and 7.4.C.”

**Objective**

Each student who successfully completes this course will be knowledgeable of and have proficiency 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

**Scope**

This 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 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

For further information on these and all Upper Management Level assessments, may check the following USCG website: [http://www.uscg.mil/nmc/stcw/](http://www.uscg.mil/nmc/stcw/)

Look under Merchant Marine Information Center (green highlight)/Policy and Guidance. Select 2002 from menu. Look for Policy number 04-02. Scroll down and you will find the Upper Management Level Assessments.

**Teaching Facility**

STAR Center, Dania Beach, Florida
Advanced Navigation (STRCTR-19)

**Course Length**  5 days

**Objective**
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 allow for compass errors

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

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

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

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Navigation (Management Level) (STRCTR-800) course will satisfy the Navigation at the Management Level training requirements of the STCW, as amended 2010, Table A-II/2 for Master and Chief Mate on vessels of 500 GT or more; AND, the following Tasks from the National Assessment Guidelines as listed in NVIC’s 10-14 and 11-14: 1.1.A; 1.2.A; 1.2.B; 1.2.C; 2.2.A; 3.1.A; 3.1.B; 3.1.C; 3.1.D; 3.2.A; 3.3.A; 3.3.A; 5.2.A; 7.4.A; 7.4.B; 7.4.C AND, until December 31, 2016, Control Sheets M-1-3A and M-2-1B as listed in Policy Letter 04-02. 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.

**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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**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 of and have proficiency 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:**

**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.

**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
Advanced Stability (STRCTR-25)

Length 5 days

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 of 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 40-hour Advanced Stability course will satisfy the Advanced Stability training requirements of 46 CFR 11.305(a)(3)(ii) and 11.307(a)(3)(ii) for STCW endorsements as Chief Mate or Master on vessels of 3,000 GT or more and 46 CFR 11.311 (a)(3)(ii) and 11.313 (a)(3)(ii) for STCW endorsements as Master or Chief Mate on vessels of more than 500 GT and less than 3,000 GT AND; The specific tasks from the National Assessment Guidelines found in NVIC-10-14 and NVIC-11-14: 9.10.A; 9.16.B; 11.1.B; 11.2.A; 11.3.A; 11.3.B; 11.3.C; 11.3.D; 11.4.A; 11.5.D; 14.1.A; 14.1.B; 14.1.C; 14.1.D; 14.2.A; 14.3.A; 17.2.A. Tasks 11.3.A, 11.3.B, 11.3.C, and 11.3.D will be recognized as equivalent to assessments M-9-1A, M-9-1B, M-9-1C and M-9-1D found in Policy letter 04-02 through December 31, 2016. 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. 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
Advanced Watchkeeping (STRCTR-27)

Length  5 days

Objective
The objective of the course is to provide students with the detailed knowledge to support the training outcomes related to Watchkeeping at the management level and in doing so, satisfy company, national and international regulations for candidates for certification as Chef Mate or Master as follows:

- STCW Code A-II/2 COLREGS; and
- USCG 46 CFR 11.910 Table 11.910-2 COLREGS and the Inland Navigational Rules.

Upon completion of this course, the students will be knowledgeable of and have a proficiency enabling them to pass the simulator assessment at the end of this course, in the following areas:

- COLREGS; and
- Inland Navigational Rules.

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

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Advanced Watchkeeping (STRCTR-27) course will satisfy the Watchkeeping and Advanced COLREGS training requirements for STCW certification as Master or Chief Mate on vessels of 500 or more gross tonnage (ITC). The practical assessments in this course will be accepted as the equivalent of assessments M-4-1A; M-4-1B; M-4-1C; M-4-2A; M-5-1A; M-5-1B; and M-5-1C from the National Assessment Guidelines for Table A-II/2 of the STCW Code. Applicants who have successfully completed your course need not present completed “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.

Teaching Facilities
STAR Center, Dania Beach, Florida

These required practical assessment control sheets may be completed in 2 ways:

- You may complete the 6 required assessment control sheets onboard ship and by having them signed off IAW USCG NMC Policy Letter 04-02. Or,

- Successful completion of STAR Center's Deck License Upgrade Celestial Navigation Course. This course involves completing the required practical assessments and an additional written exam as required by the USCG.

STAR Center recommends students have these assessment control sheets signed on board, whenever possible, as this will be the easiest option to meet the requirements. The USCG does not require that a course be completed in this area, only the practical assessments. To serve as a shipboard assessor for assessment of an applicant's practical demonstration of skill and sign the control sheets a mariner must;
• be serving on the vessel upon which the applicant is employed

• hold a STCW certification at the management level (master or chief mate)

• attest that they have read the USCG document on Conducting Mariner Assessments. This document is available at [http://www.uscg.mil/nmc](http://www.uscg.mil/nmc). A shipboard assessor who witnesses a practical assessment must sign the assessment standard (control sheet) and indicate that they have read and followed the guidance in the manual. A shipboard assessor who has read this document and uses the assessment standards (control sheet) in NMC Policy letter 04-02 will ensure a fair, standardized assessment of an applicant’s ability to completely perform the assessed task.

If a member decides to take the STAR Center’s Deck Upgrade Celestial Navigation class, a thorough review and understanding of the topics covered in Tab 4 (pages 225-325) of Pub. No 9, The American Practical Navigator (Bowditch 1995ed.) is a prerequisite. This 5 day USCG approved course is a fast paced intensive review with minimal instruction. In order for a student to receive credit for the practical demonstrations they must successfully complete all 6 control sheets and a written assessment required by the USCG. The control sheets cannot be signed off separately at STAR Center from the course completion certificate.

**Teaching Facility**

STAR Center, Dania Beach, Florida
Leadership & Managerial Skills (STRCTR-751)

Course Length  5 days

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 Skill (STRCTR-751) course will satisfy:

- The equivalent to specific tasks documented in:
  ii. NVIC 11-14 (Tasks 15.3.A, 15.5.A, 15.8.A, and 18.1.A thru 18.3.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 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
Management of Medical Care (STRCTR-788)

Course 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 of and have proficiency 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 Table A-II/2 of the STCW Code, as amended 2010; and 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). The specific tasks from the National Assessment Guidelines found in NVIC 10-14; Tasks 19.1.A, 19.2.A, and 19.3.A. Applicants who have successfully completed this course need not present completed “Control Sheets” for these assessments in application for STCW certification.”

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
Marine Propulsion Plants (Simulator) (STRCTR-272)

**Length** 5 days

**Objective**
Each student who successfully completes this course will be knowledgeable of and have proficiency 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:**


**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
Search and Rescue (STRCTR-445)

Course 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 of and have proficiency 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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Search & Rescue (STRCTR-445) course will satisfy the Search and Rescue training requirements of 46 CFR 11.305(a)(3)(v) and 11.307 (a)(3)(v) for STCW, as amended 2010 endorsements as Chief Mate or Master on vessels of 3,000 GT or more and 46 CFR 11.311(a)(3)(v); 11.313(a)(3)(v) for STCW, as amended 2010 endorsements as Chief Mate or Master on vessels of more than 500 GT and less than 3,000 GT; AND will be considered to have successfully completed specific tasks of the National Assessment Guidelines found in NVICs 10-14 and 11-14; Tasks 4.1.A and 4.1.B. Applicants are not required to present their completed Records of Assessment sheets.”

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.

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
V. DECK OICNW – OFFICER IN CHARGE OF A NAVIGATIONAL WATCH
**Basic Meteorology (STRCTR-62)**

**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 of and will have demonstrated a proficiency 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 Basic Meteorology (STRCTR-62) course will satisfy the Meteorology Knowledge, understanding and proficiency requirements of Table A-II/1 of the STCW Code, as amended 2010; and the approved training requirements of 46 CFR 11.309(a)[4][xiii] for certification as an Officer in Charge of a Navigational Watch on Vessels of 500 GT (ITC) or More. The following practical assessments performed during this course have been determined to be equivalent of the National Assessment Guidelines Tasks, as documented in NVIC 12-14 Guidelines On Qualifications For STCW Endorsements as Officer in Charge of a Navigational Watch on Vessels of 500 GT or More: 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.
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 of and have a 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 Ship Handling requirements per 46 CFR 11.309(a)(4)(xi) for STCW endorsement as OICNW on vessels of 500 GT or more. 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-II/1 as documented in NVIC 12-14: 1.8.A, 1.8.B, 9.1.A, 9.2.A, 9.2.B, 9.3.A, 9.4.A, 9.5.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. 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
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 of 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 successfully completes our Cargo Handling & Stowage (Operational Level) (STRCTR-100) course will satisfy the following requirements: 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 on vessels of 500 or more gross tonnage (ITC). The following practical assessments performed during this course have been determined to be equivalent of National Assessment Guidelines Tasks, as documented in NVIC 12-14 Guidelines on Qualifications for Officer in Charge of a Navigational Watch on Vessels of 500 GT or More: 10.2.A, 10.3.A, 11.1.A, 11.2.A, 11.4.A, 11.5.A, 11.6.A, AND 11.7.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.

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.
- Speak and understand English.

Teaching Facility
STAR Center, Dania Beach, Florida
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 of and have a proficiency 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 professional examination requirements “Navigation General: Oceans, and Navigation Problems: Oceans” for the following:
The Celestial Navigation competency requirements of Section A-II/1 of the STCW Code, as amended, and the training requirements of 46 CFR 11.309(a)[4](viii) For STCW endorsements as OICEW in vessels of 500 GT or more, and the following practical assessments from Enclosure (2) of NVIC 12-14(Ch-2): 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. (Applicants who have successfully completed our course need not present completed “Task Control Sheets” for these assessments in application for STCW certification.); AND Provided the course completion certificate is submitted within one year of course completion, the following Oceans Navigation professional examination requirements “Navigation General, Oceans and Navigation Problems: Oceans” for the following:
- To increase the scope of an endorsement as Master or Mate of self-propelled vessels of less than 500 or 1600 GRT from near coastal to oceans; AND
- To increase the scope of an endorsement as Mate or Master of self-propelled vessels of less than 200 GRT from near coastal to oceans;
- To increase the scope of an endorsement as Master or Mate of Uninspected Fishing Industry Vessels from near coastal to oceans.”

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 of and will 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 on vessels of 500 or more gross tonnage (ITC); AND, The following practical assessments performed during this course have been determined to be equivalent of National Assessment Guidelines Tasks, as documented in NVIC 12-14 Guidelines On Qualifications For Officer In Charge Of A Navigational Watch on Vessels of 500 GT or more: 1.4.C, 1.4.D, and 1.5.A. 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**
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:

- Respond to Emergencies
- Respond to Distress Signal at Sea
- Search and Rescue

Upon completion of this course, the students will be knowledgeable of and will 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 salvaging 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:
“A mariner who successfully completes our Emergency Procedures & SAR (STRCTR-184) course will satisfy the Search and Rescue training requirements of 46 CFR 11.309(a)(4)(iii) for an STCW endorsement as OICNW on vessels of 500 GT or more; AND
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-II/1 as documented in NVIC 12-14: 5.1.A, 5.2.A, 5.3.A, and 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
Magnetic & Gyro Compasses (Operational Level) (STRCTR-262)

Length 3 days

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 knowledge requirements for Compass – Magnetic & Gyro of Table 1 to 46 CFR 11.910 AND the knowledge requirements under the competence of Plan And Conduct a Passage And Determine Position: Compass – Magnetic And Gyro And Steering Control System of the STCW, as amended 2010, Table A-II/1 Officer in Charge of a Navigational Watch. This course does not cover any STCW, as amended 2010, competencies.”

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 of and will 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:
“A mariner who successfully completes our Stability and Ship Construction (STRCTR-450) course will satisfy the ship construction and ship stability standard of competence requirements of Table A-II/1 of the STCW Code, as amended 2010; and the approved training requirements of 46 CFR 11.309(a)(4)(xii) for certification as an Officer in Charge of a Navigational Watch on vessels of 500 GT or more; AND, The specific assessment performed during this course have been determined to be equivalent of National Assessment Guidelines for STCW Code, as amended 2010 Table A-II/1 as documented in NVIC 12-14; Tasks 10.1.A, 11.3.A, 13.1.A, 13.2.A, 13.3.A, and 13.4.A. Applicants for an STCW endorsement are not required to present completed task assessment sheets."

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 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 of and will 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 & Coastal Navigation training requirements of 46 CFR 11.309(a)(4)(viii) for an STCW Code, as amended 2010, endorsement as Officer in Charge of a Navigational Watch on vessels of 500 or more gross tonnage (ITC): AND,
- The following practical assessments performed during this course have been determined to be equivalent of National Assessment Guidelines Tasks, as documented in NVIC 12-14 Guidelines On Qualifications For Officer In Charge Of A Navigational Watch on Vessels of 500 GT or More: 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, 1.7.B, 1.7.C, 1.7.D, 1.7.E, and 1.7.F. 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. Students should be documented as able seaman, or least be following an approved program of shipboard training, have an equivalent and experiential background of three years more, as well as the following:
- In good physical health.
- Speak and understand English.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Watchkeeping (Operational Level) (STRCTR-548)

Length 10 days (excludes weekends)

Objective
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 of and will have demonstrated proficiency in the following areas:

- Voyage Planning
- Bridge Teamwork Procedures
- COLREGS
- Standard Marine Communication Phrases
- Safe Watchkeeping
- 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 NVIC 12-14 differ from those previously specified in Policy Letter 11-07. Among the differences are changes in the numbering scheme. The following identifies which assessments from the former scheme will satisfy the assessments specified in NVIC 12-14. Mariners who present evidence of satisfactory completion of the assessment identified as “Old Assessment Number” may use the assessment as evidence of completing the corresponding task in the column titled “New Task Number” as per NVIC 12-14 OICNW-2-1A; OICNW-2-1B; OICNW-2-1C; OICNW-2-1D; OICNW-2-1E; OICNW-2-1F; OICNW 2-1G; OICNW-2-2A; OICNW-2-2B; OICNW-2-2C; OICNW-2-2D; OICNW-2-2E; OICNW-2-2F; OICNW-2-3A; OICNW-2-3B; OICNW-2-3C; OICNW-2-3D; OICNW-2-3E; OICNW-2-3F; OICNW-2-3G; OICNW-2-3H and OICNW 2-3I.

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 and SMCP training requirements of 46 CFR 11.309(a)(4)(ix) for an STCW endorsement as Officer in Charge of a Navigational Watch on vessels of 500 or more gross tonnage (ITC) and 46 CFR 11.319(a)(4)(iii) for an STCW endorsement as Officer in Charge of a Navigational Watch on vessels of less than 500 gross tonnage (ITC); AND,

The following practical assessments performed during this course have been determined to be equivalent of National Assessment Guidelines Tasks, as documented in NVIC 12-14 Guidelines on Qualifications for Officer in Charge of a Navigational Watch on Vessels of 500 GT or More:

- Standard Marine Communications Phrases (SMCP) assessment: 7.1.A
- Pollution Prevention assessments: 12.1.A, 12.2.A, and 12.3.A
- International Conventions assessment: 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.

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
VI. ORIGINAL LICENSE COURSES
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 principle knots, bends, splices, and hitches in common use by Able Seaman.

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

“All applicant who has successfully completed our Marlinspike Seamanship course and who presents their Certificate of Training within one year of the completion of training, will satisfy the practical (knot tying) examination requirements of 46 CFR 12.05-9 for any Able Seaman endorsement.”

**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 Rating 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.

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 Marlinspike 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
VII. RADAR COURSES
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 of and have a proficiency in the following areas:

a) Fundamentals of radar and ARPA theory;
b) Integration of AIS;
c) Interpret and analyze information obtained from radar
d) Demonstrate radar/ARPA use
e) Describe principal types of ARPA, their display characteristics, performance standards and the dangers of over reliance on ARPA
f) Operate, interpret and analyze information obtained from ARPA

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


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.

Teaching Facility
STAR Center, Dania Beach, Florida
Electronic Chart Display Information Systems (ECDIS) (STRCTR-179)

Length  5 days

Objective

Each student who successfully completes this course will be knowledgeable of and have proficiency 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:

“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completed our Electronic Chart Display Information System (ECDIS) (STRCTR-179) course will satisfy the ECDIS training requirements within 46 CFR 11.305; 46 CFR 11.307; 46 CFR 11.309; 46 CFR 11.311; 46 CFR 11.313; 46 CFR 11.315; 46 CFR 11.317; 46 CFR 11.319; and 46 CFR 11.321; AND; The specific tasks from the National Assessment Guidelines found in NVIC 12-14:
• 4.1.A • 4.2.A
The specific tasks from the National Assessment Guidelines found in NVIC-10-14 and NVIC 11-14:

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.

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
**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 course will satisfy the requirements of 46 CFR 11.480(d) for renewal of any 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.

**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 of and have a proficiency 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 training requirements of 46 CFR 11.480(d) for an endorsement as Radar Observer (Unlimited) and of 46 CFR 11.309(a)(4)(ii); 11.317(a)(3)(vi); 11.319(a)(4)(iii); and 11.321(a)(3)(vi) for STCW Code, as amended 2010, endorsements. 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: 1.4.A; 1.4.B; 3.1.A; 3.2.A; 3.2.B; 3.3.A; 3.4.A; 3.4.B; 3.4.C; 3.4.D; 3.4.E; 3.4.F; 3.4.G; 3.4.H. Any approved instructor may assess the above tasks during the delivery of the course. 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.

**Teaching Facility**
STAR Center, Dania Beach, Florida
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 -1E. 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
Diesel Endorsement (STRCTR-158)

**Length** 20 days (excludes weekends)

**Objective**
The objectives of this course will be to cover an information base specific to Diesel Propulsion that will provide a USCG licensed Steam engineer a comfortable transition to safely and efficiently operate Main Propulsion Diesel Vessels and to provide STCW qualifications for qualifying engineers.

- The objective of this course is to prepare you for the USCG motors 1 and 2 exam.
- Upon completion of this course you will have to take these exams to get your MOTORS endorsement.

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

"Any applicant who has successfully completed our Diesel Endorsement (STRCTR-158) course and presents their certificate of training within one year of completion of training will:

1) 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 cannot be used for recency; OR
2) Satisfy the training requirements of 46 CFR 11.502(b)(4) for a motor endorsement to the level of their unlimited steam license one time only; AND
3) Meet the competency requirements for Preparation, Operation, Fault Detection and Necessary Measures to Prevent Damage for the Following Machinery Items and Control Systems for Main Engine and Associated of Operate Main and Auxiliary Machinery and Associated Control Systems on able A-III/1 or the STCW, as amended; AND
4) Meet the competency requirements for Manage the Operation of Propulsion Plant Machinery for Marine Diesel Engines; Detect and Identify the Cause of Machinery Malfunctions and Correct Faults; Operation, Surveillance, Performance Assessment and Maintaining Safety of Propulsion Plant and Auxiliary Machinery portions relating to Marine Diesel Engines and Main Propulsion equipment of Table A-III/2 of the STCW, as amended."

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

**Entry standards**
Student minimum prerequisites are:
- In possession of a valid Merchant Mariner Credential (MMC)
- Proficient 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
Gas Turbine (STRCTR-208)

Length 10 days (excludes weekends)

Objective
This course is intended to educate those engineering officers interfacing of gas turbine engines aboard modern merchant marine vessels. It attempts to bring together the various engineering disciplines underlying the design of the gas turbine engine with its marine applications. 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 be able to discuss and identify with confidence 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 (STRCTR-208) course and presents our certificate: has satisfied the training course requirement of 46 CFR 11.502(b)(4) in-lieu of service for adding the Gas Turbine Propulsion mode to an existing national engineering officer endorsement; AND will satisfy the approved training requirement of 46 CFR 11.329(a)(4)(vii) for Gas Turbine Plants, as applicable towards issuance of an original OICEW endorsement; AND be considered to have completed the following National Assessment Guidelines TASKs:
1. NVIC 17-14 OICEW TASK Nos.: 1.1.D; 4.3.B; 4.3.E and 4.3.H
This course may only be used once for an Increase-in-Scope for adding Gas Turbine propulsion to an existing Engineering Office Endorsement. Applicants who have successfully completed this course are not required to present completed Records of Assessment for these tasks when applying 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/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
Hydraulics – Pneumatics – Management Level

Length  5 days

Objectives
The objective is that this experience will enhance the engineering officer’s ability to perform their duties in regards to maintaining and troubleshooting hydraulic and pneumatic equipment. They will have a better understanding of Fluid Power principles, how hydraulic and pneumatic components function, and how to safely maintain them.

Scope
This course will provide engineers with knowledge in the management of the operation of hydraulic and pneumatic equipment, with regards to design features, operating mechanisms, maintenance and repair and safe working conditions. The lab portion of the course will address the startup, shut down, and maintenance procedures for hydraulic and pneumatic equipment. The lab portion will also include knowledge based exercises, troubleshooting exercises and safety precautions.

The course certificate will state:
You have successfully completed our Hydraulics – Pneumatics – Management Level course covering topics in the IMO model course for Second and Chief Engineers including: safety, lockout/tagout, interpreting symbols, fluid power principles, pumps, compressors, actuators, motors, pressure controls, flow controls, directional controls, ancillary equipment, and troubleshooting techniques.

Entry Standards
This course is intended for engineers with a minimum USCG third assistant motor unlimited endorsement.

Teaching Facility
STAR Center, Dania Beach, Florida
**High Voltage Safety (Marine)**

**Length** 3 days

**Scope**
This course is designed to improve electrical safety awareness. Students are introduced to the dangers, consequences, and precautions concerning crew and equipment on board a vessel.

**Objectives**
Upon completion of this course each student will be expected to:

- List the three major hazards associated with electrical energy.
- Identify the major factors that make shock, arc, and blast so hazardous.
- Identify the types of protective strategies that should be utilized to mitigate the severity of shock, arc, and blast.

**The course certificate will state:**

"The applicant has completed our High Voltage course which reviews: Hazards of Electricity, including electrical arc, shock and blast; Basic Protective Equipment; Energized Electrical work; De-Energized Electrical Work; Electrical Safety Standards including OSHA and NFPA standards and Electrical Equipment Hazards."

**Entry Standards**
Student minimum prerequisites are:

- Licensed as marine engineer, unlimited horsepower, OR
- Chief mate / master, unlimited tonnage

**Teaching Facility**
STAR Center, Dania Beach, Florida
Programmable Logic Controllers (PLCs)

Length 5 days

Scope
The course covers the Basic Programmable Controllers theory, including the familiarization with manuals and technical details supporting the installation, operation and maintenance of PLCs. The course includes practical demonstration using the Micrologix 1000 (Allen-Bradley) PLC, mounted as a kit for class exercises.

Objective
To enhance the knowledge and understanding of Engineer Officers in the field of Programmable Logic Controllers.

Entry standards
Student minimum prerequisites are:
- In possession of a valid Merchant Mariners Credential (MMC)
- Proficient in the English language

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

Teaching Facility
STAR Center, Dania Beach, Florida
Refrigeration (Operational Level)

Length  5 days

Objective
(Operational Level) Covers the CFR(NPRM) 11.509(2)(X) General and basic theory on construction, operation, maintenance, troubleshooting and repair on refrigeration and air conditioning compressors and systems. Covers Table A-III/1(NVIC 9-04) of the STCW code Proficiency as Officers in Charge of an Engineering Watch in a Manned Engine-Room or Designated Duty Engineer in a Periodically Unmanned Engine-Room. This week will include the IMO model course: Competence 1.6: Operate Main and Auxiliary Machinery and Associated Control Systems.

The course certificate will state:
“The applicant has completed our Refrigeration (Operational Level) training and has satisfied the training requirements in the general and basic theory on construction, operation principles, maintenance, troubleshooting and repair (fault detection) on refrigeration and air conditioning compressors and associated control systems in accordance with Table A-III/1 of the 2010 STCW code-Proficiency as Officers in Charge of an Engineering Watch in a Manned Engine-Room or Designated Duty Engineer in a Periodically Unmanned Engine-Room.”

Scope
This course is intended to meet training requirements as listed above in the 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:
- Long sleeve shirt and pants
- Reading glasses

Simulators and Training Tools
- SIMUTECHS commercial refrigeration system
- Hampden Bay H-IRT-1 chilled water and refrigeration box trainer
- Direct expanding self-contained water cooled package units
- Carrier 76ct open circuit trainer

Teaching Facility
STAR Center, Dania Beach, Florida
Refrigeration (Management Level)

Length  5 days

Objective
The course is intended to cover the requirements of the STCW Code, Section A-III/2, Table A-III/2, *Start Up and Shut Down Main Propulsion and Auxiliary Machinery, including Associated Systems*. Included is the IMO model course Competence 1,1: Plan and Schedule Operations: *Start Up and Shut Down Main Propulsion and Auxiliary Machinery, Including Associated Systems*.

The course certificate will state:

“The applicant has completed our Refrigeration (Management Level) training and has satisfied the training requirements in the general and basic theory on construction, operation principles (Plan and schedule operations), surveillance, perform assessment, maintain safety, maintenance, troubleshooting and repair (fault detection) on refrigeration and air conditioning compressors and associated control systems in accordance with Table A-III/2 of the 2010 STCW code- Specification of minimum standard of competence for chief engineer officers and second engineer officers on ships powered by main machinery of 3000 kW propulsion power or more.”

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

Entry standards
This course is intended for candidates with a current understanding of refrigeration. Hold a license credential endorsed for Officer in Charge of an Engineering Watch as Assistant Engineer, DDE (limited engineer), or 3 A/E unlimited horsepower or higher and hold a Universal Refrigeration Certificate per IAW 46CFR part 82.

Please be prepared for class with the following:

- Long sleeve shirt and pants
- Reading glasses

Simulators and Training Tools

- SIMUTURECHS commercial refrigeration system
- Hampden Bay H-IRT-1 chilled water and refrigeration box trainer
- Direct expanding self-contained water cooled package units
- Carrier 76ct open circuit trainer
- Carrier transicold container unit

Teaching Facility

STAR Center, Dania Beach, Florida
Steam Crossover (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 course and presents our Certificate of Training within one year of course completion will satisfy the following:
For Third or Second Engineer National Credential and Operational Level (STCW A-III/1 applicant):
  a) Receive once, 60 days of sea service credit towards raising a Third Assistant Engineer Steam endorsement to a Second Assistant Engineer Steam Endorsement; OR
  b) Satisfy once, the course requirements of 46 CFR 11.502(b)(4) for adding the Steam Propulsion endorsement to the level of their current unlimited motor or gas turbine endorsement; AND
Chief or First Engineer National Credential and Management Level (STCW A-III/2 applicant)
  a) Satisfy the course requirement of 46 CFR 11.502(b)(4) for adding the Steam Propulsion endorsement to the level of their current unlimited motor or gas turbine endorsement; AND
  b) Satisfy Tasks 1.2.A, 1.2.B, 1.2.C, 1.2.D, 3.2.A, 5.1.B, 7.1.B and 8.1.A from the National Assessment Guidelines, as documented in NVIC 15-14 Chief Engineer/Second Engineer Officer 4,000 HP or More will satisfy 46 CFR 11.325 (a)(2) and 46 CFR 11.327(a)(2) for removing the steam propulsion limitation on their STCW Chief Engineer or Second Engineering Officer endorsement. Completed Task Control sheets are not required to be submitted but must be retained in records providing proof of completion. Instructors approved for this course may assess and sign the above Tasks as appropriate. This course may be used for only on 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.”

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
**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 training requirements of the STCW Code 2010, Table A-III/1, within the Function: Maintenance and Repair at the Operational Level, under the Competence: Appropriate use of hand tools, machine tools and measuring instruments for fabrication and repair on board. AND the specific TASKs listed from the National Assessment Guidelines of NVIC 17-14 OICEW: 8.1.B and 8.1.C. Applicants who have successfully completed this course need not present completed “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
McFatter Technical Institute, Davie, FL
IX. ENGINE UPGRADE AT THE MANAGEMENT LEVEL (STCW 2010)
Engine Room Resource Management (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:
“This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart D of Part 10, Title 46, Code of Federal Regulations. Any applicant who has successfully completes your 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
• Applicants who have successfully completed this course need not present completed “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

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Leadership & Managerial Skills (STRCTR-751)

**Length**  5 days

**Objective**
Each student who successfully completes this course will be knowledgeable of and have proficiency 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 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
- Maintenance 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 equivalent to specific tasks documented in:
  - vi. NVIC 11-14 (Tasks 15.3.A, 15.5.A, 15.8.A, and 18.1.A thru 18.3.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 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
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 the 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); 46 CFR 11.327(a)(3)(iii) and (b)(3); 46 CFR 11.331(a)(3)(iii) and (b)(3); and 46 CFR 11.333(a)(3)(iii) and (b)(3). This course does not satisfy any competencies required by STCW, as amended 2010.”

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
STCW Engineering Upgrade Assessments Program (STRCTR-833)

Overview

- STCW Upgrade Task Assessment – Generals, MEECE, and Motors (E135B)
- STCW Upgrade Task Assessment – Steam (E121)
- STCW Upgrade Task Assessment – Gas Turbine (E122)

*All students require Generals and MEECE assessments plus the propulsion modes listed on their license. E135B contains everything for motor only.

Objective

The objective of the STCW Engineering Upgrade Task Assessment program is to obtain signoff of the required tasks within NVIC 15-14 and NVIC 16-14 which are not contained or met within other required STCW engineering upgrade courses.

The NVIC assessments which are signed off within the appropriate Record of Assessment are as follows:


Enter Standards

- In possession of a valid Merchant Mariner Credential (MMC) with STCW OICEW III/1 endorsement
- Must hold at minimum a 3rd Assistant Engineer unlimited to be signed off for NVIC 15-14 tasks or Assistant Engineer (limited) to be signed off for NVIC 16-14 tasks

Please be prepared for class with the following

No extra class material required

Teaching Facility

STAR Center, Dania Beach, Florida
X. ENGINE OICEW – OFFICER IN CHARGE OF AN ENGINEERING WATCH
Third Engineer Program (STRCTR-519)
The Engineering Candidate Hawsepipe (TECH)
Cooperative 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 have:

- Satisfied the service requirements of 46 CFR 11.516(a)(6) for endorsement as Third Engineer of Motor propelled vessels Provided a minimum of 360 days of sea service onboard motor propelled vessels of over 4000 HP in the capacity of Apprentice Engineer;
- Satisfied the following requirements of 46 CFR 11.329 for endorsement as Officer in Charge of an Engineering Watch:
  o The sea service requirements of 11.329(a)(1)(ii)
  o The watchkeeping duties of 11.329(a)(2);
  o Have met the competencies specified in Section A-III/1 of the STCW Code and all the TASKs of the OICEW NVIC 17-14 limited to Motor Propelled Vessels. The following tasks are NOT satisfied by completion of this program: 1.1C; 1.1D; 4.1.B; 4.1.C; 4.2.B; 4.3.A; 4.3.A(S); 4.3.D.; 4.3.E; 4.3.G; 4.3.H; 4.3.J; 4.3.K; 4.3.L; 6.1.C
  o The required training for:
    i. Medical First Aid Provider A-VI/4-1 (satisfies 46 CFR12.609);
    ii. Basic and Advanced Fire Fighting (A-VI/3) (satisfies 46 CFR 11.303);
    iii. Proficiency in survival craft and rescue boats other than fast rescue boats, A-VI/2-1;
    iv. Engineroom Resource Management (RRM), including Leadership and Teamworking Skills;
    v. Engineering Terminology and Shipboard Operations; vi. Auxiliary Machinery;
  o. Motor Plants; vii. Electrical Machinery and Basic Electronics; ix. Control System.
- Satisfied the requirements of 46 CFR 11.201(i)(1)(ii) for First Aid and 11.201(ii)(1) for CPR; AND 46 CFR 11.302(a) for Basic Training, A-VI/1; AND 46 CFR 12.407 for endorsement as Lifeboatman; AND 46 CFR 12.625 for endorsement as Vessel Personnel with Designated Security Duties (VPDSD), A-VI/6-2. This endorsement may be issued on the students’ MMC when applying for their initial Apprentice Engineer endorsement or at any time during the program as long as documentation of completion of an appropriate course is supplied with the application;
- Satisfied the following towards Tankerman Dangerous Liquids:
  o The course requirements of 46 CFR 13.201, 13.401 and 13.501 and may be issued a Tankerman-Assistant (DL) endorsement;
  o Satisfied the Tankerman Fire Fighting training requirements of 46 CFR 13.201, 13.401 and 13.501
  o Satisfied the requirements of 46 CFR 13.609(a)(2) for an endorsement of Basic Oil and Chemical Tanker Cargo Operations, A-V/1-1-1.
Applicants who have successfully completed our program need not present completed “Task Control Sheets” for the assessments in application for STCW certification or submit the documentation of the required sea service. All documentation providing evidence of program completion, including copies of sea service records will be maintained and available for review at any time."

**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/Marshall 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](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](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 Machinery (STRCTR-862)

Auxiliary Machinery I, II & III

Length

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<thead>
<tr>
<th>Auxiliary Machinery I</th>
<th>5 days</th>
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<tr>
<td>Auxiliary Machinery II</td>
<td>10 days (excludes weekends)</td>
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<tr>
<td>Auxiliary Machinery III</td>
<td>10 days (excludes weekends)</td>
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<td><strong>Total</strong></td>
<td><strong>25 days</strong></td>
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</tbody>
</table>

Please Note: ALL Modules Must be Taken in Order for Full USCG Credit

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 completed all modules (Auxiliary Machinery I, II & III) comprising our Auxiliary Machinery (STRCTR-862) course, will satisfy the Auxiliary Machinery training requirements of 46 CFR 11.329(a)(4)(vi) for STCW endorsement as an OICEW on vessels powered by main propulsion machinery of 750 kW / 1,000 HP propulsion power or more; AND satisfy the specific TASK 4.1.A from the OICEW NVIC 17-14. 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.

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

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<tr>
<th>Length</th>
<th>EMBE I</th>
<th>5 days</th>
<th>EMBE II</th>
<th>5 days</th>
<th>EMBE III</th>
<th>10 days (excludes weekends)</th>
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<tr>
<td>Please Note:</td>
<td>ALL Modules Must be Taken in Order for Full USCG Credit</td>
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<tr>
<td>Total</td>
<td><strong>20 days</strong></td>
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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
- Maintenance & Repair of Electrical Machinery
- 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

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

"Any applicant who successfully completed all modules (EMBE I, II & III) comprising our Electrical Machinery and Basic Electronics (EMBE) (STRCTR-861) course will satisfy the training requirements of 46 CFR 11.329(a)(4)(x) for STCW endorsements as OICEW on vessels powered by main propulsion machinery of 750 kW / 1,000 HP propulsion power or more; AND the following specific TASKs from the OICEW NVIC 17-14: 6.1.A; 6.1.B; 6.1.C; 6.1.D; 6.2.A; 7.1.A; 7.2.A; 7.2.B; 7.3.A; and 7.4.A. Applicants are not required to present the completed record of assessment sheets when applying for the 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
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:

“All applicant who has successfully completed our Engineering Terminology and Shipboard Operations (STRCTR-825) course will satisfy the training requirements of 46 CFR 11.329(a)(4)(v) for STCW endorsements as OICEW on vessels powered by main propulsion machinery of 750kW/1,000 HP propulsion power or more.”

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:**

“Our applicant who has successfully complete our Engine Watchkeeping (Operational Level) (STRCTR-723) course will satisfy the Engineering Terminology and Shipboard Operations training requirement of 46 CFR 11.329(a)(4)(v); AND the following TASKs from Enclosure (2) of the OICEW NVIC 17-14: 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; 4.3.R; 4.3.S; and 7.5.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.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Instrumentation (STRCTR-230)
Controls I & II

Length

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<tr>
<td>Controls I</td>
<td>10 days (excludes weekends)</td>
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<td>Controls II</td>
<td>10 days (excludes weekends)</td>
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<tr>
<td>Total</td>
<td>20 days</td>
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Please Note: ALL Modules Must be Taken in Order for Full USCG Credit

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 of and will 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.

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** 20 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 endorsements as OICEW on vessels powered by main propulsion machinery of 750 kW/1,000 HP propulsion power or more; AND the following TASKs from Enclosure (2) of the OICEW NVIC 17-14 (CH-1): 4.2.C; 4.3.A; 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
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 month. 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
- Materials
- 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 STCW training of Table A-III/1 for the Use of Hand Tools, Machine Tools and Measuring Instruments for an Officer in Charge of an Engineering Watch; AND
- The following TASK from the National Assessment Guidelines NVIC 17-14 for OICEW: 8.1.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 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 successfully completing our OICEW - Maintenance & Repair (STRCTR-835) course and presenting their certificate of completion will satisfy the following TASKs from the Officer in Charge of an Engineering Watch NVIC 17-14: 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
XI. MSC TRAINING PROGRAM
**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
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 relative to MSD operation.

Teaching Facility
STAR Center, Dania Beach, Florida
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
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
**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 fire fighting and rescue techniques for the saving of life and suppression and extinguishment of fire and to 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 fire fighting 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 fire fighting 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:
   (1) Speak, read, and understand the English language in accordance with 46 CFR 13.111; and
   (2) Provide documented evidence of fulfilling the physical examination requirements in accordance with 46 CFR 12.15-5.

**Teaching Facility**
Resolve Maritime Academy
**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 learn increase his knowledge of MSC policies and procedures.

**Teaching Facility**
STAR Center, Dania Beach, Florida
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 12 months prior to completion of this course satisfy the following:
  - The Medical Care Person in Charge 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), 11.315(a)(3)(ii); and 46 CFR12.621(a)(1) and (2); and Table A-VI/4-2 of the STCW Code, as amended 2010 for an STCW endorsement as Person in Charge of Medical Care.
  - The CPR training requirements of 46 CFR 11.201(i)(2)(iii) and 46 CFR 11.201(e )(2)(iii).”

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
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**
All modules shall be taught at STAR Center, Dania Beach, Florida with the exception of:

- Helicopter Fire Fighting (at Resolve)
Security Watchstander (Advanced)

Length  1 day

Scope
This course is comprised of the following training:
- Advanced Cuffing Techniques
- Mechanical Advantage Control Holds (MACHs)
- 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.

Teaching Facility
All modules will normally be taught at STAR Center, Dania Beach, Florida. Baton, Take Downs, and Handcuffing drills may be taught at Broward College’s Institute of Public Safety (IPS) facilities.
Security Watchstander (Basic)

**Length**  2 days

**Scope**
This course is comprised of the following training:

**Day One**
- Security Watch Organization / Use of Force / Deadly Force
- Communications & Surveillance
- Security Zones / Defense in Depth
- Gangway / Roving Patrol and Entry
- Concepts / Watch Turnover Procedures

**Day Two**
- 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
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)
- PRRACTIAL 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
- Practical Weapons Course

**NOTE:** *Students MUST pass to continue with course. No practice time afforded. Must hold current Small Arms pistol qualification.*

**Day Two:**
- Close quarters battle / 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.

**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.

Teaching Facilities
- STAR Center, Dania Beach, Florida
- Broward College, Institute of Public Safety Indoor Firing Range.
**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