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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Issue Date: 01 March 2011
Expiration Date: As superseded

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: 13-1952549
      iii. TIN/EIN: 16-8012211471-0
b. **Officials.**

Director of Training, Captain Philip F. Shullo, USN (Ret.)

c. **Governing Body.**

Board of Trustees, American Maritime Officers Safety & Education Plan

d. **Faculty.**

STAR Center employs 30 full-time and 70 part-time (adjunct) instructors.

3. **Space.** Classroom space is governed by the United States Coast Guard, which requires 36 square feet per student plus 72 square feet for the instructor. 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

<table>
<thead>
<tr>
<th>Room Number</th>
<th>Room Name and Primary Function</th>
<th>Size in Ft²</th>
<th>Max. # of Students</th>
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<tbody>
<tr>
<td>101</td>
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<td>31</td>
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<tr>
<td>102</td>
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<td>11</td>
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<td>103</td>
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<td>104</td>
<td>Train-The-Trainer Classroom / Computer Lab (12 x student PCs)</td>
<td>525</td>
<td>13</td>
</tr>
<tr>
<td>105</td>
<td>Train-The-Trainer Classroom / Computer Lab (12 x student PCs)</td>
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<td>13</td>
</tr>
<tr>
<td>201</td>
<td>Train-The-Trainer Classroom / Computer Lab (12 x student PCs)</td>
<td>527</td>
<td>13</td>
</tr>
<tr>
<td>203</td>
<td>General Use Classroom / Computer Lab (10 x student PCs)</td>
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<td>13</td>
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<tr>
<td>208</td>
<td>Weapons Classroom</td>
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<td>9</td>
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<tr>
<td>212</td>
<td>Self-study Engineering Classroom (5 x student PCs)</td>
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<td>4</td>
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<td>213</td>
<td>Self-study Engineering Classroom (8 x student PCs)</td>
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<td>10</td>
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<tr>
<td>211A</td>
<td>Neptune Engine Simulation (8 x student PCs)</td>
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<td>211F</td>
<td>Large Engine Simulator Classroom</td>
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<td>7</td>
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<tr>
<td>211G</td>
<td>Neptune PC Simulator and GMDSS Lab (6 x student PCs)</td>
<td>300</td>
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<td>211H</td>
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<tr>
<td>217</td>
<td>Banquet Room</td>
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</tr>
<tr>
<td>301</td>
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<tr>
<td>308</td>
<td>Deck Simulator Debrief Room</td>
<td>361</td>
<td>8</td>
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<tr>
<td>M402</td>
<td>Dynamic Positioning Classroom (4 x student PCs)</td>
<td>256</td>
<td>5</td>
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<tr>
<td>M403</td>
<td>STAR Center Conference Room</td>
<td>768</td>
<td>19</td>
</tr>
</tbody>
</table>
responsibility of the individual student and shall be safeguarded and secured by the student at all times.

5. **Attendance.** The following attendance policies apply:

   a. **Absences.** No absences are permitted. If required to leave prior to course completion, a student must register in the same course within the following twelve (12) months and complete all missed time. Failure to complete within the stated time period shall require the student to repeat the entire class. Any tardiness tolerated shall be at the discretion of the Director of Training and shall be made up in its entirety after hours.

   b. **Termination for Unsatisfactory Attendance.** As classes vary in duration from one 1 day to 4 weeks dismissal for unsatisfactory attendance varies accordingly. In general, to meet US Coast Guard attendance requirements 100% attendance in all courses is required. However, late arrivals or interruptions can be “made up” in some circumstances. Courses of five (5) days or less duration can make up no more than a four-hour tardy on the first day. Longer courses may be able to make up a full 8 hours, but this is dependent on instructor availability and other factors and is at the discretion of the Director of Training.

   c. **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 Progress.** 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.

7. **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.

8. **Credit for Previous Training.** STAR Center provides maritime training for license upgrade, initial qualification, or professional development. It is the responsibility of the student applying for training to determine the relevance of the class. STAR Center does not provide credit for any previous training except in certain limited cases to meet academic prerequisites.

9. **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.

10. **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 [www.star-center.com/schedule.pdf](http://www.star-center.com/schedule.pdf).

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

12. **Refunds.** (Must be pro rata – CFR 21.4255) 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 that 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.

13. **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.
I. GENERAL COURSES
ABS NS-5 ("Safe Net" Update)

**Length** 24 hours (3 days)

**Scope**
This program is designed to cover the Maintenance & Purchasing and Quality & Compliance modules for users who are new to NS-5. Students will be trained in using the application and develop the competencies required to perform their purchasing, inventory, maintenance, and quality & compliance functions onboard the vessel.

**Objective**
At the end of the program the student will be able to:
1. Navigate the NS-5 system (screens, modules, forms).
2. Understand the structure of the vessel hierarchy in NS-5.
3. Understand the diagram of the purchasing cycle utilized by NS-5.
4. Create, edit, and follow the life cycle of purchasing documents (requisitions, service requests, purchase orders, RFQs).
5. Use the Equipment Explorer and query for equipment or parts.
6. Create, modify, merge, and hide storage locations.
7. Create spaces.
8. Take full and partial delivery of an order.
9. Reconcile inventory.
10. Create a standard job and use the standard job query.
11. Use the Maintenance Plan Schedule.
12. Create work orders and service orders from overdue Standard Jobs.
13. Update or adjust running hours for equipment or counter.
14. Create and edit documents in the Quality & Compliance module (audits, incidents, inspections/drills/meetings, and CARs).

**Entry Standards**
Personnel required for the ordering, approval, inventory reconciliations, or unpacking of all equipment and consumables received onboard the vessel. This will vary across organizations, but may include masters, chief engineers, first or second engineers, stock-keepers, and chief or second cooks.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Advanced Fire Fighting

**Length** 45 hours (5 days)

**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.

**Objective**
Conducted at our 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 aboard the T/V Grey Manatee, our world renowned live fire simulator. The realistic live fire training is combined with classroom work and open forum discussions with a focus on personal safety, teamwork, and fire prevention to prepare the student to meet the unique challenges of shipboard or marine fire fighting.

This course is USCG approved and meets or exceeds the requirements for license approval. During this 45 hour course, your instruction will include:

<table>
<thead>
<tr>
<th>Fire Chemistry Behavior</th>
<th>Marine Fire Fighting Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Extinguishment Principles</td>
<td>De-watering</td>
</tr>
<tr>
<td>Portable Fire Extinguishers</td>
<td>Shipboard Ventilation</td>
</tr>
<tr>
<td>Shipboard Emergency Organization</td>
<td>Interior Fire Control &amp; Extinguishment</td>
</tr>
<tr>
<td>Fire Control Plans Development &amp; Use</td>
<td>Flammable Liquids Fire Control Techniques</td>
</tr>
<tr>
<td>Fixed Fire Protection Systems</td>
<td>Teamwork, and the Importance of Training</td>
</tr>
<tr>
<td>Fire Detection Systems</td>
<td>Fire Prevention Practices</td>
</tr>
<tr>
<td>Self-Contained Breathing Apparatus</td>
<td>Personal Protection Equipment &amp; Safety</td>
</tr>
</tbody>
</table>

**Teaching Facility**
Resolve Fire & Hazard Response, Inc.
Located in Port Everglades
Basic Safety Training (STRCTR-65)

**Length** 40 hours (4 modules)

**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)

**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.

**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
Personal Survival Techniques (STRCTR-363)

Length 12 hours (1½ days)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged in any capacity on board ship on the business of that ship as part of the ship’s complement with designated safety or pollution-prevention duties in the operation of the ship shall, before being assigned any shipboard duties receive approved basic training or instruction in certain areas concerning personal survival techniques. This course is designed to fulfill the requirements of STCW Code 95 with respect to this “Basic Training - Personal Survival Techniques” requirement. It is designed to give the individual a level of knowledge beyond simple vessel familiarization for those seafarers who have basic safety or pollution-prevention duties.

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 these tables through examination and/or continuous assessment throughout the course.

Entry standards
This course is open to all seafarers who are to serve aboard 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
**Personal Safety & Social Responsibilities (4-hour) (STRCTR-359)**

**Length**  4 hours (½ day)

**Scope**

In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged in any capacity on board ship on the business of that ship as part of the ship’s complement with designated safety or pollution-prevention duties in the operation of the ship shall, before being assigned any shipboard duties receive approved basic training or instruction in certain areas concerning their basic safety and social interaction on board ships. This course is designed to fulfill the requirements of STCW Code 95 with respect to this “Basic Training - Personal Safety and Social Responsibilities” requirement. The course is one of four courses designed to be completed independently of one another or all completed in a four- or five-day period. It is designed to give the individual a level of knowledge beyond simple vessel familiarization for those seafarers who have basic safety or pollution-prevention duties.

**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.

**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
Elementary First Aid (STRCTR-183)

Length 8½ hours (1 day)

Scope

In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged in any capacity on board ship on the business of that ship as part of the ship's complement with designated safety or pollution-prevention duties in the operation of the ship shall, before being assigned any shipboard duties receive approved basic training, instruction in certain areas concerning elementary first aid on board ships. This course is designed to fulfill the requirements of STCW Code 95 with respect to this "Basic Training – Elementary First Aid" requirement. The course is one of four courses designed to be completed independently of one another or all completed in a five day period. It is designed to give the individual a level of knowledge beyond simple vessel familiarization for those seafarers who have basic safety or pollution-prevention duties.

Objective

Successful completion of this course will prepare any seafarer on a sea-going merchant ship to provide immediate basic medical care 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. Specifically, this course covers the training in elementary first aid specified in STCW Code Table A-VI/1-3, taking immediate action upon encountering an accident or other medical emergency, which includes the following knowledge, understanding, and proficiency in:
1. Assessing the needs of casualties and threats to safety.
2. Appreciation of body structure and functions.
3. Understanding the immediate measures taken in cases of emergency, including the ability to:
   • Position the casualty.
   • Apply resuscitation techniques IAW the new Guidelines 2000 for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care: International Consensus on Science.
   • Control bleeding.
   • Apply appropriate measures in the event of burns and scalds including accidents caused by electric current.
   • Knowledge of fractures, strains, sprains, dislocations, and application of immobilization.
   • Apply appropriate measures for basic shock management.
   • Recognize sudden illnesses and commence first aid treatment.
   • Rescue and transport a casualty.

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

Entry standards

This course is open to all seafarers who are to serve aboard 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
Basic Fire Fighting (STRCTR-53)

Length 16 hours (2 days)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged in any capacity on board ship on the business of that ship as part of the ship’s complement with designated safety or pollution-prevention duties in the operation of the ship shall, before being assigned any shipboard duties receive approved basic training or instruction in certain areas concerning fire fighting on board ships. This course is designed to fulfill the requirements of STCW Code 95 with respect to this “Basic Training - Fire Fighting” requirement. The course is one of four courses designed to be completed independently of one another or all completed as a single course. It is designed to give the individual a level of knowledge beyond simple vessel familiarization for those seafarers who have basic safety or pollution-prevention duties.

Objective
This course covers the training of crews in fire fighting recommended in Annex 1 of IMO Assembly resolution A.437 (XI). Those who have successfully completed the course should be able to react in the correct manner if fire breaks out, to take appropriate measures for the safety of personnel and of the ship and to use fire appliances correctly and safely.

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.

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

I. PST: 8-hour Refresher

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged in any capacity on board ship on the business of that ship as part of the ship’s complement with designated safety or pollution-prevention duties in the operation of the ship shall, before being assigned any shipboard duties receive approved basic training or instruction in certain areas concerning personal survival techniques. This course is designed to fulfill the requirements of STCW Code 95 with respect to this “Basic Training - Personal Survival Techniques” REFRESHER requirement. It is designed to give the individual a level of knowledge beyond simple vessel familiarization for those seafarers who have basic safety or pollution-prevention duties.

Objective
The objective of this course is to provide appropriate 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 the tables through examination and/or continuous assessment throughout the course.

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 and meet the physical fitness requirements stated in 46 CFR 10.205. Students must have already obtained a 40 hour BST certificate as original certification.

II. PSSR: 4-hour Refresher

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged in any capacity on board ship on the business of that ship as part of the ship’s complement with designated safety or pollution-prevention duties in the operation of the ship shall, before being assigned any shipboard duties receive approved basic training or instruction in certain areas concerning their basic safety and social interaction on board ships. This course is designed to fulfill the requirements of STCW Code 95 with respect to this “Basic Training - Personal Safety and Social Responsibilities” REFRESHER requirement. The course is one of four courses designed to be completed independently of one another or all completed in a three-day period. It is designed to give the individual a level of knowledge beyond simple vessel familiarization for those seafarers who have basic safety or pollution-prevention duties.
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 these tables through examination and/or continuous assessment throughout the course.

Entry standards

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

III. Elementary First Aid: 4-hour Refresher

Scope

In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged in any capacity on board ship on the business of that ship as part of the ship’s complement with designated safety or pollution-prevention duties in the operation of the ship shall, before being assigned any shipboard duties receive approved basic training or instruction in elementary first aid on board ships. This course is designed to fulfill the requirements of STCW Code 95 with respect to this “Basic Training – Elementary First Aid” REFRESHER requirement. The course is one of four courses designed to be completed independently of one another or all completed in a five day period. It is designed to give the individual a level of knowledge beyond simple vessel familiarization for those seafarers who have basic safety or pollution-prevention duties.

Objective

Successful completion of this course will prepare any seafarer on a sea-going merchant ship to provide immediate basic medical care 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. Specifically, this course covers the training in elementary first aid specified in STCW Code Table A-VI/1-3, take immediate action upon encountering an accident or other medical emergency, which includes the following knowledge, understanding and proficiency:

1. Assessment of the needs of casualties and threats to safety
2. Appreciation of body structure and functions
3. Understanding of immediate measures to be taken in cases of emergency.

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

This course is open to all seafarers who are to serve aboard 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

IV. Fire Fighting: 8½-hour Refresher

Scope

In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged in any capacity on board ship on the business of that ship as part of the ship’s complement with designated safety or pollution-prevention duties in the operation of the ship shall, before being assigned any shipboard duties receive approved basic training or instruction in certain areas concerning personal survival techniques. This course is designed to fulfill the requirements of STCW Code 95 with respect to this “Basic Training - Personal Survival Techniques” REFRESHER requirement. It is designed to give the individual a level of knowledge beyond simple vessel familiarization for those seafarers who have basic safety or pollution-prevention duties.

Objective

The objective of this course is to provide appropriate 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.

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 and meet the physical fitness requirements stated in 46 CFR 10.205. Students must have already obtained a 40 hour BST certificate as original certification.
Crowd Management (STRCTR-142)

**Length** 6¾ hours (1 day)

**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”.

**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.

**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
Crisis Management & Human Behavior (STRCTR-138)

Length  7 hours (1 day)

Scope  
This course is designed for personnel serving on board passenger ships engaged in international voyages. The course will equip trainees with knowledge and skills to facilitate safe management / control of emergency situations. The course is designed for “masters, chief mates, chief engineer officers, second engineer officers, and any person having responsibility for the safety of passengers in emergency situations”.

Objective  
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 that “ship unique” policies/procedures are learned. The course meets the criteria for satisfaction of training requirements enumerated in Standards of Training, Certification and Watchkeeping (1995) Code, Sections A-V/2 and A-V/3 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; and.
- Establishing and maintaining effective communications.

Entry standards  
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 duties as Master, chief mate, chief engineer officer, second engineer officer or assigned responsibility for safety of passengers in emergency situations. 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
Electronic Chart Display Information Systems (ECDIS) (STRCTR-179)

Length  40 hours (1 week)

Scope
This course provides training in the basic theory and use of Electronic Chart Display and Information Systems (ECDIS) for officers in charge of a navigational watch (OICNW) and management level deck personnel on ECDIS-equipped ships.

The student will have the opportunity to understand the potential of ECDIS as an aid to navigation, as well as an increased situational awareness in a real navigational environment.

Objective
Students successfully completing this course will be able to use ECDIS for their navigational watch, operate ECDIS equipment, use the navigational functions of ECDIS, select and assess all relevant information, and then take proper action. In addition, the student will have knowledge of the principal types of electronic charts and the essential legal aspects of the use of ECDIS.

Entry standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard and the Standards of Training, Certification and Watchkeeping (STCW) of 1995. Students should have a STCW Certification as an Officer In Charge of a Navigation Watch (OICNW) or have an equivalent and experiential background, along with the following:

- In good physical health.
- Speak and understand English.
- At least 21 years of age.
- Have basic computer skills and experience with the Windows operating system or equivalent is required.

Teaching Facility
STAR Center, Dania Beach, Florida
Effective Supervision

Length  16 hours (2 days)

Scope
This course is a classroom lecture- and exercise-based course that is designed for maritime personnel in any supervisory position. The course is intended to give the supervisor knowledge in effective communication, motivations of behavior, consistent standards of supervision, conflict resolution, and performance evaluations.

This course covers the following subject:
- Supervisor’s role
- Basic principles
  - Motivations of behavior
  - Self esteem
  - 2-way communication
  - Consistent standards
- Expectations and feedback
- Resolving conflict
- Performance Evaluations

Objective
As a result of the training supervisors will:
- Know the role of a supervisor in motivating positive behavior and in confronting and resolving behavior and performance issues.
- Be able to use communication techniques that are direct and to the point but that are unlikely to provoke defensive behavior.
- Be able to give both positive and constructive feedback.
- Be able to resolve conflict constructively.
- Be able to apply the learning to the specific evaluation and disciplinary practices of their companies.

Entry Standards
Student must be at least 18 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Fast Rescue Boat (STRCTR-193)

Length 32 hours (4 days)

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 Watch keeping (STCW) Code of 1995 for Seafarers.

Objective
This course covers the requirements of the 1995 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.

Entry standards
Student minimum prerequisites are:

- Be medically fit

Teaching Facility
STAR Center, Dania Beach, Florida
Global Maritime Distress & Safety System (STRCTR-210)

Length  70 hours (10 days)

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.

Objective
To provide the knowledge requirements to meet the specifications of Section A/IV-2 of the STCW ’95 Code, and the U.S. Model Course for GMDSS.

Entry standards
Student must be a U.S citizen, or U.S. C.G. 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
Tank Ship Liquefied Gases (STRCTR-508)

**Length** 60 hours (8 days)

**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.

**Objective**
Those successfully completing this course should be able to take immediate responsibility for loading, discharging, and care in transit or handling of cargo on liquefied gas tankers. The course is approved as meeting the requirements of 46 CFR 13 and STCW A-V/1 and will satisfy international and domestic training requirements for endorsement for those responsible for supervising cargo operations as well endorsement for Tankerman Person in Charge (Liquefied Gas). In addition the course is certified as meeting the requirements of the Society of International Gas Tanker and Terminal Operators (SIGTTO) competency standards for all officer ratings. It also meets the requirements as an approved training course for renewal of a tankerman endorsement.

**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
Liquefied Gas Tanker (Membrane)
Cargo Operator Simulator (STRCTR-256)

**Length** 40 hours (1 week)

**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.

**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. The course is approved by the USCG for credit of 1 load and 2 discharge towards the experiential requirements of 46 CFR 13 as Tankerman Person in Charge (LG). It also meets the requirements as an approved training course for renewal of a tankerman endorsement.

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

**Teaching Facility**
STAR Center, Dania Beach, Florida
Proficiency in Survival Craft (STRCTR-372)

**Length** 32 hours (4 days)

**Scope**
This course is a classroom- and survival craft-based course that is designed to cover the mandatory minimum requirements for the issue of certificates of proficiency in survival craft as specified in 46 CFR 12.01-3 and in Section A-VI/2 of the International Convention on Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 for Seafarers. A final skills demonstration will be completed using shipboard specific survival craft equipment in accordance with COMDTPUB P16700.4 NVIC 03-02 dated 04 January.

**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 (1995) table A-VI/2-1.

**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
Tank Ship Dangerous Liquids (Classroom) (STRCTR-502)

Length 40 hours (1 week)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged on tank ships 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 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.

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.

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 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 80 hours (2 weeks)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, seafarers employed or engaged on tank ships 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 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 those requirements.

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 U.S. Coast Guard and in accordance with the STCW ‘95 Code.

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 the level of third mate / third assistant engineer or have an equivalent educational and experiential background.

Teaching Facility
STAR Center, Dania Beach, Florida
Train-The-Trainer

Length  40 hours (1 week)

Scope
This course is primarily intended for instructors, supervisors, and assessors who will be responsible for the conduct of training and/or assessment of competency required by the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978 as amended in 1995 (STCW 95). It sets forth a standardized program of instruction for these individuals as required by STCW Code Section A-I/6. The course is of limited duration and therefore cannot be considered as providing comprehensive teacher/assessor training. However, the course does include many principles of teaching together with their applications in training and assessment, both in the classroom and during in-service training on board ship.

The topics covered should serve as a valuable introduction for those who have little experience in teaching and/or assessment as well as a very useful refresher for the experienced instructor/assessor. The introductory part reviews STCW 95, the STCW Code and specific training requirement tables. In its subsequent parts, the course deals with the basic aspects of the learning process, the purpose of training, the setting of training objectives, basic principles of course design, basic presentation skills, and assessment techniques. The individual student will choose a particular STCW training requirement, develop training objectives, a teaching syllabus, and lesson plans, present the lesson, design an assessment, and then assess that competency.

Coursework completion for the Train-The-Trainer course certificate includes daily readings and written exercises outside of classroom hours.

Objectives
Participants successfully completing the course for instructors, supervisors, and assessors should be capable of undertaking all of the responsibilities expected of instructors/assessors within their field of expertise. They will be fully aware of training requirements and provisions of STCW and the STCW Code. They will also be familiar with the concepts generally taken into account when formulating a training policy, be able to develop training objectives, select the most appropriate learning processes, and develop the means of assessing the competency of the individual.

Entry Standards
Those participating in this course should be qualified within the areas they are to teach and/or assess. Those entering the course should be holders of a license for the program in which they will teach or have other high level qualifications for specialized training.

Teaching Facility
STAR Center, Dania Beach, Florida
Simulator Instructor Training (STRCTR-463)

**Length** 40 hours (1 week)

**Scope**
The scope of this course is to familiarize subject matter experts and experienced trainers in the use of simulators to bring about experiential learning. The course includes some principles of teaching and the application of simulators in training. It is designed to supplement the Instructor Qualification course required by the U.S. Coast Guard for Qualified Instructors. This course alone will not qualify an individual to instruct students using simulators. The instructor must also undergo specific equipment familiarization on the specific simulator to be used as well as know the specific training objectives of the course to be taught prior to teaching a specific course.

**Objective**
Those successfully completing this course should be capable of undertaking all of the responsibilities expected of simulator instructors. They will be familiar with the concepts generally taken into account when formulating and conducting simulator courses. They will be able to develop training objectives, select the proper method of applying simulator instruction, design scenarios, conduct briefings and debriefings, and develop the means of evaluating the competency of the students.

**Entry standards**
Those participating in this course should be qualified within the areas they are to teach and/or assess. Those entering the course should be holders of a license for the program in which they will teach or have other high level qualifications or specialized training. While not required, completion of a 40-hour course meeting the requirements of U.S. Coast Guard Navigation and Inspection Circular (NVIC) 6-97 is highly recommended prior to entry into this course.

**Teaching Facility**
STAR Center, Dania Beach, Florida
**Vessel & Company Security Officer (STRCTR-572)**

**Length** 20 hours (2 days)

**Scope**
This course aims to provide knowledge to those who may be designated to perform the duties and responsibilities of a vessel security officer (VSO) or company security officer (CSO) as defined in section A/2.1.6, A/2.1.7 (and section A/12) (and paragraph 11 of part A) of the ISPS Code, and in particular the duties and responsibilities with respect to the security of a ship, for implementing and maintaining a Ship Security Plan, and for liaising with the CSO, VSO, or PFSO (port facility security officer). For CSO—To ensure the development (or for developing) a ship security assessment, for ensuring the development (or for developing), implementing, maintaining, and updating of a ship security plan, and for liaising with the VSO and PFSO.

When fully implemented, these measures will require ships and ports to have security plans, designate a CSO and VSO, and develop training requirements for ship security personnel.

**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.

**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, Company, & Port Facility Security Officer**

**Length** 24 hours (3 days)

**Scope**

This course aims to provide knowledge to those who may be designated to perform the duties and responsibilities of a Ship Security Officer (SSO), Company Security Officer (CSO), or Port Facility Security Officer (PFSO) as defined in section A/2.1.6, A/2.1.7, A/2.18 (and section A/17.1) (and paragraph 11 of part A) of the ISPS Code, and in particular the duties and responsibilities with respect to the security of a ship, for implementing and maintaining a Ship Security Plan and for liaising with the CSO, SSO, or PFSOs. For CSO—To ensure the development (or for developing) a ship security assessment, for ensuring the development (or for developing), implementation, maintenance, and updating of a ship security plan and for liaising with the CSO and SSO, and for PFSO for the development (or for developing) of a Port Facility Security Assessment, for ensuring the implementation, maintenance, and updating of the Port Facility Security Plan and for liaising with the SSO and CSO.

When fully implemented, these measures will require ships and ports to have security plans, designate a CSO, SSO, and PFSO, and develop training requirements for security personnel.

**Objective**

The objective of this course is to educate ship, company, and port 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 SSO, SSO, or PFSO as defined in Sections A/11.2 and A/12.2 of the ISPS Code and 33 CFR part 101-104.

**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 envisaged.

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 SSO. However, no specific entry requirements are envisaged.

For PFSO—It is assumed that those attending this course will be serving at a maritime facility, and that they are likely to be designated as PFSO. However, no specific entry requirements are envisaged.

**Teaching Facility**

STAR Center, Dania Beach, Florida
Assessment of Seafarer Proficiency

Length  40 hours (1 week)

Scope
This course is an introduction to the overall process of developing assessment procedures and conducting valid assessments of seafarer proficiency through written examination, verbal examination, and demonstration. This course is designed to meet the requirements of the Standards of Training, Certification and Watchkeeping Code 1995 (STCW Code) with respect to Section A-I/6 paragraph 6.3.

This course is only intended to satisfy the STCW Code Section A-I/6 paragraph 6.3 requirement for providing appropriate guidance in assessment methods and practice. This course is based on the abridged version of IMO Model Course 3.12 – Examination and Certification of Seafarers and on the U.S. Coast Guard / Battelle Research Center Developing Procedures for Assessment of Mariner Proficiency workshop. The course is introductory classroom instruction on the assessment of seafarers covering an in depth review of assessment methodology and the organization and administration of examinations.

Objective
Those successfully completing the 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.

Entry standards
Trainees 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 is the STAR Center Instructor, Supervisor, and Assessor Train-The-Trainer Course or at least 40 hours of equivalent training.

Teaching Facility
STAR Center, Dania Beach, Florida
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II. DECK COURSES
Advanced Bridge Resource Management (STRCTR-12)

**Length** 35 hours (5 days)

**Scope**
This course is designed for advanced teamwork skill training of ship’s bridge personnel. The course topics and exercises are designed to give advanced training to the students in teamwork & task work behavioral skills to enhance team proficiency in managing operational risk on the bridge.

**Objective**
The objective of this course is to provide review for personnel in areas as 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 of 1995, 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.

**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** 40 hours (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 80 hours (2 weeks)

Scope
This course is a classroom- and simulator-based course designed for the modern ship’s bridge personnel. The course topics and exercises are designed to expose the student to a higher level of shiphandling practice and responding to emergencies and operations from the bridge of a modern day vessel.

Objective
The objective of this course is to instruct the student in the advanced 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.

Any applicant successfully completing the 2-week course will qualify for 60 days sea service toward raise of grade for any unlimited deck license as granted under the authority of the U.S. Coast Guard by 46CFR10.304.

Entry standards
The student minimum prerequisites are:

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.

Teaching Facility
STAR Center, Dania Beach, Florida
Emergency Shiphandling for First Class Pilots

Length  40 hours (1 week)

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
**Bridge Resource Management (3-day) (STRCTR-88)**

**Length**  
24 hours (3 days)

**Scope**  
This course is designed for the modern ships’ bridge personnel. 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 operations on the bridge of a modern day vessel.

**Objective**  
The objective of this course is to instruct the student in the areas relevant to bridge resource management and in doing so, satisfy company, national, and international regulations as stated in Standards of Training Certification and Watchkeeping (STCW) Code, 1995 tables A-I I/1, A-II/2, and the recommendation of section B-VIII/2 for competence in knowledge of bridge teamwork principles and bridge resource management.

**Entry standards**  
Student minimum prerequisites are:

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.

**Teaching Facility**  
STAR Center, Dania Beach, Florida
Bridge Resource Management
(80-hr Integrated Bridge Systems) (STRCTR-91)

**Length** 80 hours (2 weeks)

**Scope**
This course is intended for captains and watch officers who are sailing on ships with IBS/INMS and / or Podded Propulsion. It is comprised of instruction and exercises in ship handling, a general overview of integrated bridge and control systems, the operation of a dynamic positioning system, podded propulsion system, and Joystick control system. The course includes classroom instruction in theory, basic and specific equipment operation, and simulator exercises.

This course is designed to meet the intent of the IMO Subcommittee on Safety of Navigation NAV 44/INF.3 Performance Standards for Integrated Navigation Systems Operational and Design Standards for Integrated Bridge Systems submitted by Finland and dated 24 April 1998.

The course will serve as a valuable foundation for officers who will be assuming navigation and watch standing responsibilities on vessels with all or some of the technology above. This course provides a blend of simulator exercises and classroom instruction introducing the capabilities of the integrated bridge system equipment. Exercises are designed to provide realistic scenarios highlighting the functionality of the technology.

**Objective**
The objective of this course is to instruct the student in areas relevant to ship handling, navigation, and propulsion control systems.

**Entry standards**
OICNW

**Teaching Facility**
STAR Center, Dania Beach, Florida
Locking & Docking for First Class Pilots

Length  40 hours (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 provides 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
**STCW Deck Officer Refresher (STRCTR-473)**

**Length** 23½ hours (3 days)

**Scope**
This course is classroom- and simulator-based and is designed for the modern ship’s bridge personnel. The course topics and exercises are designed to expose the student to refresher training and to relay the importance of these factors in managing information and operations on the bridge of a modern day vessel.

**Objective**
The objective of this course is to instruct the student in the areas relevant to bridge resource management, Keeping a Safe Navigational Watch, and, in so doing satisfy company, national, and international regulations as stated in Standards of Training Certification and Watchkeeping (STCW) 1995 Table A-VII/2, and Section B-VIII/2, paragraph 5, for competence in knowledge of the following:
- Effective bridge teamwork procedures;
- The principles in keeping a safe navigational watch;
- Work regulations;
- Shipboard instruction and drills;
- Distress at sea;
- New technology; and
- Marine law.

The course supports the training outcomes related to these identified skills. In doing so, a candidate’s successful completion of assessments for BRM and watchkeeping principles in accordance with in-house control sheets 1 and 2 to be certified for STCW ‘95 will satisfy company, national, and international regulations for refresher training for a STCW ‘95 endorsement.

**Entry standards**
The course is open to students who have a need for such training as required by the USCG and STCW ‘95.

Student minimum prerequisites are:
- Hold a valid certificate/license as rating forming part of a navigational watch (RFPNW) or national equivalent; or
- Hold a valid mate’s license or equivalent and experiential background;
- Is in good physical health;
- Speak and understand English; and
- At least 21 years of age.

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

**Length** 40 hours (1 week)

**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-95 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**  40 hours (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
Visually Communications (Flashing Light) (STRCTR-542)

Length 8 hours (1 day)

Scope
In accordance with the requirement of 46 CFR 10.401(h) each applicant for a deck license authorizing service on vessels above 1600 gross tons on ocean or near coastal waters, whether original or raise of grade, must pass a practical signaling exam (flashing light) and Table A-II/1 for officers in charge of a navigational watch on ships of 500 gross tonnage or more to transmit and receive information by visual signaling as found in the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995.

Objective
Successful completion of this test will enable any licensed deck officer satisfying the requirements noted above as having demonstrated these required proficiencies:

1. Ability to transmit and receive signals by Morse light; and
2. Ability to use the International Code of Signals.

Individuals will be required to demonstrate competence in accordance with the methods and criteria for evaluating competence through examination.

Entry standards
This test is open to all persons seeking an original deck license and any person with an existing deck license seeking a raise of grade.

Teaching Facility
STAR Center, Dania Beach, Florida
Incident Response & Shipboard Management

Length 40 hours (5 days)

DECK COURSE

Objectives
Upon completion of this module the student will be able to explain the purpose of the course in terms of the company's commitment to quality, safety, prevention, and incident response training.

This module is designed to provide the participants with an introduction and overview of the course. Course objectives and schedule will be presented, followed by a discussion on Company's short and long-term training goals for shore side and shipboard personnel in the areas of quality management, safety, incident prevention and emergency response readiness.

ENGINEERING COURSE

Scope
This course is a classroom-based course designed for the modern ship's licensed engineering personnel. The course relies heavily on the use of the workstation and full-scale simulators 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.

Objective
The objective of this course is to complete the learning objectives of individual lecture and discussion modules (e.g. leadership, communications, team building, etc.) and to successfully participate in the simulator and team exercises, thereby displaying knowledge of engine room resource management and engine room teamwork principles. And in doing so, satisfy company standards of training for licensed engineers.

Entry Standards
Student minimum prerequisites are:

- Hold a position as chief engineer or assistant chief engineer or hold a position as 1st engineer OR
- Hold a position as 2nd engineer

Teaching Facility
STAR Center, Dania Beach, Florida
Introductory Shiphandling for First Class Pilots

**Length**  40 hours (1 week)

**Scope**
This course is a classroom- and simulator-based course designed for the Great Lakes mate. The course topics and exercises expose the student to an entry level of shiphandling practice and Great Lakes piloting.

This course covers the following subjects:
- Review of shiphandling principles
- Emergency response shiphandling
- Restricted waters shiphandling
- Heavy weather shiphandling and docking
- Use of anchors
- Organization and procedures
- Port approach and preparation

**Objective**
The objective of this course is to instruct the student in the advanced 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
Senior Deck Officer Advanced Shiphandling

**Length** 40 hours (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 360° 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
Azipod Familiarization

**Length**  24 hours (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 that 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
- Speak & understands English
- Company & personal requirements for using Azimuthing Propulsion Systems for handling vessels equipped with same.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Bridge Resource Management (35-hour) (STRCTR-84)

Length 35 hours (5 days)

Scope
This course is designed for the modern ships’ bridge personnel. 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 operations on the bridge of a modern day vessel.

The course covers the following subjects:
- BRM and human factors
- Bridge organization and procedures
- Voyage planning
- Situational awareness
- Communications
- Stress and distractions
- Leadership and teambuilding
- Fatigue and circadian rhythm
- Multi-cultural diversity
- Pilot - bridge team integration

Objective
The objective of this course is to instruct the student in the areas as relevant to Bridge Resource Management. In doing so, this will satisfy company, national, and international regulations as stated in Standards of Training, Certification and Watchkeeping (STCW) 1995 tables A-II/1, A-II/2, and the recommendation of section B-VIII/2 for competence in knowledge of Bridge Teamwork Principles and Bridge Resource Management.

Entry standards
Student minimum prerequisites are:
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 master, chief officer, second officer, or third officer.

Teaching Facility
STAR Center, Dania Beach, Florida
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III. ENGINEERING COURSES
Advanced Slow Speed Diesel Plant Operation (STRCTRL-24)

Length  80 hours (2 weeks)

Scope
This course is designed to provide practicing chief engineers and first assistant engineers with advanced knowledge in the areas of fuel oil characteristics and preparation, the combustion process in slow speed diesel plants, and information necessary to monitor and improve the performance of the ship’s engine placed in their care. The combination of classroom lecture and simulator exercises provides each student substantial time on the simulator trainer for both engine system and familiarization purposes before getting into the more advanced work of plant management. It is intended that this experience will enhance the engineering officers’ ability to perform their duties and operate a diesel propulsion plant at optimum levels, as well as provide new skills for measuring plant performance and altering operational procedures to increase overall system efficiency and safety. 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.

Objectives
The objective of this course is to provide the student with:

- Familiarization with the engineering workstation operation and diesel engine systems;
- Familiarization with start-up and operational procedures for the propulsion plant subsystems located in the control room including Proportional-Integral-Derivative (PID) controller, Auto Chief console, electrical switchboard, and steam generator console; and
- Knowledge of how to start up and operate propulsion plant subsystems including lubrication systems, cooling systems, fuel systems, shafting and gearing systems, turbochargers, electrical systems, and fresh water generators.

Entry Standards
First Assistant Engineer, Motor and Chief Engineer, Motor Unlimited.

Teaching Facility
STAR Center, Dania Beach, Florida
Basic Electricity (STRCTR-52)

**Length**
- Part 1 = 40 hours (1 week)
- Part 2 = 40 hours (1 week)

**Scope**
This course meets the mandatory minimum requirements for knowledge, understanding and proficiency as described in 46 CFR 10.950 and the 1995 STCW Convention Chapter III, Section A-III/1.

*Week 1* deals with Direct Current and meets the following control sheet requirements for Officer in Charge of an Engineering Watch (OICEW):
- OICEW-3-1A
- OICEW-3-1B
- OICEW-3-1C
- OICEW-3-1D

*Week 2* deals with Alternating Current and meets the following control sheet requirements:
- OICEW-7 -1A -1B -1C -1D -1E
- Table A-III/1 of STCW 1995 for the function Electrical, Electronic and Control Engineering at the Operational Level

**Objective**
This course covers requirements of the 46 CFR 10.950 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, electricity portion.

**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.

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

**Length**  160 hours (23 days)

**Scope**
This course will introduce the student to the necessary subject matter and information particular to main propulsion diesel plants as found on today's vessels and will provide understanding as to the differences encountered when operating diesel propulsion power plants as compared to steam propulsion power plants.

**Objectives**
The objectives of this course will be to cover an information base specific to diesel propulsion that will provide a U.S. Coast Guard licensed steam engineer a comfortable transition to safely and efficiently operate main propulsion diesel vessels.

**Entry Standards**
The mariner wishing to cross over a steam license **MUST** have an unlimited horsepower rating on that license.

Any applicant who has successfully completed your Diesel Endorsement (STRCTR-158) course and presents your certificate of training within one year of completion of training will receive 60 days sea service credit toward upgrading an unlimited third assistant (motor) engineer license to an unlimited second assistant (motor) engineer license; OR satisfy the training requirements of 46 CFR 11.502(b)(4) for a motor endorsement to the level of their unlimited steam license.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Electrical, Electronic and Control Engineering (Management Level) (STRCTR-177)

**Length** 160 hours (4 weeks)

**Scope**
This course meets the mandatory minimum requirements for knowledge, understanding, and proficiency as specified in Table A–III/2 of the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 for the function Electrical, Electronics and Control Engineering at the Management Level.

**Objectives**
The course covers the requirements of the 1995 STCW Convention Chapter III, Section A–III/2. The course provides background for the student to demonstrate knowledge and understanding of the following:

- Marine Electro technology, Electronics and Electrical Equipment;
- Fundamentals of Automation, Instrumentation and Control Systems; and
- Practical operation, testing, and maintenance of electrical and electronic control equipment, including fault diagnoses using simulation tools.

**Entry Standards**
This course is intended for engineering officers seeking certification as chief engineer and first engineer officer (U.S. licenses) on ships powered by main propulsion machinery of 3000 kW or more. The candidates for certification shall meet the requirements as an officer in charge of an engineering watch (OICEW) and have approved seagoing service as per Regulation III/2.

**Teaching Facility**
STAR Center, Dania Beach, Florida
**Engine Room Resource Management (STRCTR-187)**

**Length** 35 hours (5 days)

**Scope**
This course is classroom-based and designed for the modern ships' licensed engineering personnel. The course relies heavily on the use of the workstation and full-scale simulators 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.

**Objectives**
The objectives of this course are to complete the learning goals of individual lectures and discussion modules (e.g. leadership, communications, team building, multicultural diversity, etc.) and to successfully participate in the simulator and team exercises, thereby displaying knowledge of Engine Room Resource Management and Engine Room Teamwork Principles, and in doing so, satisfy company standards of training of licensed engineers.

**Entry Standards**
The student minimum prerequisite is:
- Licensed as unlimited horsepower marine engineer, steam, motor or gas turbine.

**Teaching Facilities**
- STAR Center, Dania Beach, Florida
Afloat Environmental Protection

**Length**  16 hours

**Scope**
This course will train the student in environmental regulations, including MARPOL 73/78, Clean Air Act, and Clean Water Act. The student will become familiar with waste streams definitions, documentation and record keeping, culture and education, and monitoring and control systems.

**Objective**
To provide environmental training covering the laws concerning pollution in the maritime industry.

**Entry standards**
This course is open to both deck and engine officers.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Oily Water Separator

Length 8 hours

Scope
The course provides knowledge to protect environmental resources and the requirements and responsibilities of all officers sailing aboard merchant marine vessels.

Objective
To enable the student to discuss and identify with confidence the various issues regarding the use of oily water separators.

Entry standards
This course is intended for all licensed engine officers.

Teaching Facility
STAR Center, Dania Beach, Florida
Gas Turbine (STRCTR-208)

**Length**  80 hours (2 weeks)

**Scope**
This gas turbine course is a classroom- and simulator-based course intended for those engineering officers interacting with the operation of gas turbine engines aboard merchant marine vessels. The course brings together the various engineering disciplines underlying the gas turbine engine used in marine applications. The course is appropriate for those engineering officers holding either a steam or motor unlimited horsepower license and meeting the requirements of current U.S Coast Guard regulations.

**Objectives**
The objectives of the course are:

- To introduce the student to the modern gas turbine engine and discuss application to the marine power plants.
- To assess and demonstrate competence in operating, monitoring, and evaluating engine performance and capacity of a gas turbine marine propulsion plant using a simulator-based gas turbine.
- To demonstrate skills recognizing components and parts, mounting and dismounting gas turbine components, and carrying out non-destructive inspections using borescope.

**Entry Standards**
Student entry standards / minimum prerequisites are:

- Must hold a valid certificate - Steam or Motor Unlimited.
- Must have a working knowledge and good understanding of the principles of thermodynamics and fluid mechanics.

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

**Length** 24 hours (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.

**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 40 hours (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
- The course is open to Engineer Officers who wish to update or acquire knowledge on PLCs and the way they are used in engineering and electrical systems.

Teaching Facility
STAR Center, Dania Beach, Florida
Steam Crossover (STRCTR-477)

Length 160 hours (4 weeks)

Scope
This course will introduce the student to the necessary subject matter and information particular to main propulsion steam plants as found in today’s ocean going vessels and will provide understanding as to the differences encountered when operating steam turbine propulsion power plants as compared to diesel propulsion power plants.

Objectives
The objectives of this course will be to cover technical information specific to steam turbine propulsion that will provide a USCG licensed diesel engineer a comfortable transition to safely and efficiently operate main propulsion steam vessels.

Entry Standards
This course requires that the candidate hold a valid USCG Merchant Marine engineering license of any horsepower in the motor propulsion mode.

Important Note: Please be aware that prior to sitting for the Steam Endorsement exam students will need to have completed their USCG evaluation. The evaluation is not required to take the course but is strongly advised.

Teaching Facility
STAR Center, Dania Beach, Florida
Welding & Metallurgy—Skills & Practices (STRCTR-551)

Length 80 hours (2 weeks)

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).

This course covers the following subjects:
- Shielded metal arc welding
- Oxy-Fuel process
- Air carbon arc process
- Drilling and tapping
- Sweating and bending of copper
- Flux core welding process

Objectives
The objective of this course is to teach students to use the basic welding skills required for their engineering duties, including:

- Explain and demonstrate basic welding terminology and safety.
- Demonstrate a good working knowledge of oxy-acetylene welding principles and practices.
- Identify and explain basic AC/DC welding equipment.
- Perform flat arc welding using proper electrodes and procedures.

Entry Standards
Student minimum prerequisites are:
- At least 18 years of age.
- Hold a valid Merchant Mariners Document (MMD).

Teaching Facility
STAR Center, Dania Beach, Florida
Watchkeeping and Operational Practices
Modern Motor Vessels (STRCTR-546)

**Length**  80 hours (10 days)

**Scope**
This course is designed to provide marine engineers with comprehensive experience in operating diesel plants, sub systems, and auxiliary machinery. The course provides each student with substantial time on a medium speed diesel simulator and a dedicated visual simulator covering energy management and troubleshooting. The course outline incorporates items needed for STCW (Standards of Training, Certification and Watchkeeping) certification and individual check off list requirements. The coordination and communication skills practiced in this course should serve to promote teamwork and communication in both the machinery spaces and with the bridge personnel on vessels at sea.

**Objective**
The objective of this course is to improve the student’s general watchkeeping capabilities, troubleshooting abilities, and understanding of engine room operations along with the communications involved in these operations.

**Entry standards**
The student will hold either a valid U.S. Coast Guard marine engineers license or QMED rating.

**Teaching Facility**
STAR Center, Dania Beach, Florida
IV. ORIGINAL LICENSE COURSES & GALLEY COURSES
Rating Forming Part of a Navigation Watch Assessment (STRCTR-412)

Length  8 hours (1 day)

Scope
This course is designed to meet the requirements for the skills and knowledge to fulfill the competency of ratings to perform the navigation function at the support level, Ratings Forming Part of a Navigational Watch (RFPNW), as specified in Section A-II/4 of the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995, and U.S. Coast Guard NVIC 02-02.

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

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 95 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
Marlinspike Seamanship (STRCTR-280)

Length  5¾ hours (1 day)

Scope
The purpose of this course is to have students demonstrate knowledge of the principal knots, bends, splices, and hitches in common use by actually tying them. This course will satisfy the requirements of 46 CFR §12.05-9 for demonstrating ability in knot tying for issuance of an Able Seaman certificate.

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.

Entry standards
The course is open to all entry level seafarers who desire an Able Seaman certification.

Teaching Facility
STAR Center, Dania Beach, Florida
Able Seaman (STRCTR-1)

Length  40 hours (1 week)

Scope
This course is a classroom- and simulator-based course designed to meet the requirements for the skills and knowledge to fulfill the duties of an able seaman as specified in 46 CFR 12.05.

Objective
Participants successfully completing the Able Seaman course should be capable of undertaking all of the responsibilities of an able seaman. The course will address the following knowledge, skills, and attitudes:

- Steer the ship and comply with helm orders in the English language.
- Keep a proper lookout by sight and hearing.
- Contribute to monitoring and controlling a safe watch.
- A basic knowledge of the international regulations for preventing collisions at sea.
- A knowledge of safe working practices.
- A basic knowledge of the elements of navigation.
- A knowledge of emergency equipment and application of emergency procedures.
- A basic knowledge of anchoring, mooring, and line handling.
- A basic understanding of nautical terms.
- The practices of good seamanship.
- A basic knowledge of the measures of pollution control.
- The basic elements of survival at sea.

Entry standards
Student minimum prerequisites are:

- At least 18 years old and competent in speaking and understanding the English language.
- Hold a valid Merchant Mariner Document (MMD).
- Hold a Proficiency in Survival Craft and Marlinspike Seamanship certificate.
- Be medically fit.
- Hold a valid STCW ’95 certificate for all elements of Basic Safety Training issued within the past five years, have been approved by the USCG to examine for the Able Seaman / Lifeboat Endorsement, or meet the sea service requirements for an application for an Able Seaman / Lifeboatman Endorsement.

Teaching Facility
STAR Center, Dania Beach, Florida
Food Safety, Sanitation, Basic
Galley Preparation & Nutrition

Length  40 hours (1 week)

Scope
The course is intended to instruct the student in the area of food safety, sanitation and Hazardous Analysis Critical Control Point (HACCP) using the NRAEF ServSafe program and certification examination. It is designed to give the maritime galley personnel nutritional and food preparation knowledge by both classroom and 'hands on' galley experience.

Objective
To provide the student with detailed knowledge and build competency in the areas of Food Safety and Sanitation, food preparation and HACCP. The course meets the criteria for satisfaction of training requirements for the NRAEF ServSafe certification.

Entry standards
This course is open to maritime galley personnel who have a basic knowledge in food safety and sanitation.

Teaching Facility
STAR Center, Dania Beach Florida
Culinary Fundamentals

Length 80 hours (2 weeks)

Scope
This course is a classroom- and galley-based course that is designed for maritime galley cooks. The course is intended to give the cook fundamental culinary knowledge covering food science, culinary math, recipe and food cost, tools and equipment, knife skills, ingredients, produce, fruits, herbs, mise-en-place, stocks, sauces, soups, vegetables, starches, salad and salad dressings, and sandwiches.

This course covers the following subjects:
- Food science basics
- Culinary math
- Recipes and food cost
- Tools and equipment
- Knife skills
- Dairy, eggs and dry goods
- Fresh produce
- Basic mise-en-place
- Stocks, sauces & soups
- Vegetables and starches
- Salad and salad dressings
- Sandwiches

Objective
The objective of this course is to increase the cook’s competency needed to become a qualified member of a steward department through knowledge and understanding of culinary fundamentals.

Entry standards
This course is open to maritime cooks with knowledge in food safety and sanitation

Teaching Facility
STAR Center, Dania Beach, Florida
Advanced Steward

**Length** 40 hours (1 week)

**Scope**
The purpose of this course is to give the cook basic information and knowledge covering identifying equipment, common terms, sanitation and safety, basic cooking techniques, preparing soups, salads and sauces, galley organization, and how to follow galley recipes.

**Objective**
To increase the cook’s competency needed to become a qualified member of a steward department through knowledge and understanding of the workings of a maritime galley.

**Entry standards**
A general understanding of the working galley is helpful, but not mandatory.

**Teaching Facility**
STAR Center, Dania Beach, Florida
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V. MARAD TRAINING PROGRAM
Small Arms Initial Qualification
and Sustainment Qualification

Length  24 hours (3 days)

Scope
This course is approved by Military Se alift Command (MSC) as meeting both the initial qualification requirements and the sustainment qualifications in accordance with OPNAVINST 3591.1E. It is not a fire - arms 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.
Drug Testing Program - Urine Collector

**Length** 8 hours (1 day)

**Scope**
This course is designed to train collectors to meet the requirements set forth in the 49 CFR Part 40 and USCG Modal Rules and other Modal Agencies.

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

**Entry standards**
Individuals that are on board ship with designated management or supervisor capacity in the area of urine collection for drug testing in compliance with 49 CFR Part 40. The collector must attend initial training, refresher training no less than every five years, and error correction training as stated in the 49 CFR Part 40.

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

Length  4 hours (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
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VI. MCS TRAINING PROGRAM
Basic CBR Defense

Length  8 hours (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
Heat Stress Afloat

Length  4 hours (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.

Entry standards

Teaching Facility
STAR Center, Dania Beach, Florida
Hearing Conservation Afloat

**Length** 4 hours (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.

**Entry standards**

**Teaching Facility**
STAR Center, Dania Beach, Florida
Readiness Refresher

Length  40 hours (5 days)

Scope
This course is comprised of the following training:

- A U.S. Coast Guard approved 30-day Basic Safety Training Refresher course
- MSC approved 1-day Helicopter Fire Fighting (initial training)
- ½-day Damage Control Refresher
- ½-day CBR Defense Refresher
- Marine Environmental Programs (scheduled after hours)

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 courses:

- Damage Control
- Basic CBR Defense
- Basic Safety Training

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)
- Basic Fire Fighting Refresher (at Resolve)
Security Watchstander (Basic)

**Length** 16 hours (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 Comm and 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
Security Watchstander (Advanced)

Length  8 hours (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.
Ship Reaction Force

Length  
24 hours (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
  - Simmunition

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 students shall be “fit for duty” in accordance with USCG medical requirements.

Teaching Facility  
STAR Center, Dania Beach, Florida
Shipboard Damage Control

**Length** 16 hours (2 days)

**Scope**
Damage control must be considered as an offensive as well as a defensive function. Damage control deals with all types of damage such as fire, collision, grounding, and explosions. Damage control operations may be necessary not only at sea but in port as well, and may involve the use of personnel from other organizations, facilities, or ships.

The control of damage depends upon the ability and initiative of personnel to take prompt corrective action using the material that is readily available. Having a thorough knowledge of the ship and the scope of damage control will enable personnel to determine the correct action to take.

**Objective**
The most important phase of damage control takes place before damage happens. Only through training, exercises, tests, and inspections can the ship’s personnel obtain the capability and knowledge of how to act when action is needed.

**Entry standards**

**Teaching Facility**
STAR Center, Dania Beach, Florida
Shipboard Helicopter Fire Fighting

**Length** 8 hours (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**
STAR Center, Dania Beach, Florida
VII. MEDICAL COURSES
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Medical Care Provider (STRCTR-310)

**Length** 24 hours (3 days)

**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.

**Objective**
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 student 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 medical treatment.
- Exchange medical information.
- Aid in the prevention and transmission of disease.

**Entry Standards**
The course is open to officers and specified crew members that have the prospect or are designated to provide emergency medical care to the sick or injured while they remain on board. Those entering the course 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. Student should be at least 18 years of age and meet the physical fitness requirements stated in 46 CFR 10.205.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Medical Care Person In Charge (STRCTR-307)

**Length** 40 hours (1 week)

**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.

**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 ‘95 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.

**Entry standards**
Must meet the STCW Code ‘95 standards for deck officer licensing requirements at the management level.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Medical Care Person In Charge Refresher

Length  24 hours (3 days)

Scope
This course is to reacquaint the Medical Person In Charge with the following training:

Day One:
CPR and AED
Anatomy & Physiology review
Patient Assessment and History review
Pain Assessment and Management review

Day Two:
Diseases review
Skin Integrity Injury review (burns, wounds)
Head, Chest, Back, and Skeletal Injuries review

Day Three:
Medication Administration and Medical Equipment review

Objective
This course is approved by Military Sealift Command to provide retraining for Military Sealift Command civilian personnel who may serve in the capacity of Medical Person In Charge. It will re-familiarize the Medical Person in Charge with the equipment and procedures they will use when responding to medical and injury emergencies onboard.

Entry standards
All Students will have successfully have completed a Medical Person In Charge course prior to taking this refresher course.

Teaching Facility
STAR Center, Dania Beach, Florida
**Drug Testing - Urine Collector Proficiency Instructor**

**Length** 8 hours (1 day)

**Scope**
This course is designed to train the trained collector in instructing new collectors or providing refresher training and error correction training to trained collectors. The course meets the requirements set forth in 49 CFR Part 40 and USCG Modal Rules and other Modal agencies.

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

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

**Teaching Facility**
STAR Center, Dania Beach, Florida
Automatic External Defibrillator and CPR

**Length** 4 hours (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
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VIII. RADAR COURSES
Radar Observer Recertification (STRCTR-402)

**Length** 4 hours (½ day)

**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.

**Objective**
Students will demonstrate their knowledge, understanding, and proficiency of Radar/ARPA theory and successfully demonstrate competency on approved radar/ARPA simulators as required by the U.S. Coast Guard requirements and satisfying the ARPA competency requirements of Section A-II/1 of the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995. Students will demonstrate the ability to do the following:

1. Explain the fundamentals of radar and ARPA theory.
2. Interpret and analyze information obtained from radar.
3. Demonstrate radar/ARPA use.
4. Describe the principal types of ARPA, their display characteristics, performance standards, and the dangers of over reliance on ARPA.
5. Operate, interpret, and analyze information obtained from ARPA.

**Entry standards**
Student should hold a deck officer license and be certified as an original radar observer.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Automatic Radar Plotting Aids (ARPA) (STRCTR-37)

Length 28 hours (4 days)

Scope
This course will provide the training required by government agencies to those mariners who are sailing on board ARPA equipped vessels.

Objectives
Students will demonstrate their knowledge, understanding, and proficiency of Radar/ARPA theory and successfully demonstrate competency on approved radar/ARPA simulators as required by the U.S. Coast Guard requirements and satisfying the ARPA competency requirements of Section A-II/1 & A-II/2 of the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995. Students will demonstrate the ability to do the following:

A-II/1 – Operational Level
a) Explain the fundamentals of radar and ARPA theory.
b) Interpret and analyze information obtained from radar.
c) Demonstrate radar/ARPA use.
d) Describe the principal types of ARPA, their display characteristics, performance standards, and the dangers of over reliance on ARPA.
e) Operate, interpret, and analyze information obtained from ARPA.

A-II/2 – MANAGEMENT LEVEL
a) An appreciation of system errors and a thorough understanding of the operational aspects of modern navigational systems, including radar and ARPA.
b) Blind pilotage techniques.
c) Evaluation of navigational information derived from all sources, including radar and ARPA, in order to make and implement command decisions for collision avoidance and for directing the safe navigation of the ship.
d) The inter-relationship and optimal use of all navigational data available for conducting navigation.

Entry standards
Student should hold a deck officer license and be certified as an original radar observer.

Teaching Facility
STAR Center, Dania Beach, Florida
Radar Observer (Unlimited) (STRCTR-399)

Length 40 hours (1 week)

Scope
This course provides training to those mariners who are applying for a Revised 6-04 license as a deck officer, licensed deck officers who are upgrading their licenses, and those seeking to increase the scope of their license for service on vessels of 300 gross tons and over.

Objective
Students will demonstrate their knowledge of radar theory and operation by successfully completing the U.S. Coast Guard requirements and satisfying the radar competency requirements of Section A-II/1 of the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995. Students will demonstrate the ability to do the following:
- Explain basic radar theory.
- State the purpose and function of the main components that comprise a typical shipboard marine radar installation.
- Explain radar performance.
- Demonstrate radar use.

Entry standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard. Students should:
- Be in good physical health.
- Speak and understand English.
- Be at least 21 years of age

Teaching Facility
STAR Center, Dania Beach, Florida
IX. DECK UPGRADE AT THE MANAGEMENT LEVEL
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Cargo Handling & Stowage (Management Level) (STRCTR-98)

Length 72 hours (9 days)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as master and chief mate of ships 500 gross tons or more shall be required to demonstrate the competence to undertake, at the management level, the tasks, duties, and responsibilities listed in Column 1 of Table A-II/2 in the STCW Code 95. This course is intended to meet the requirements for cargo handling and stowage at the management level.

Objective
The objective of this course is to provide students with the detailed knowledge to support the training outcomes related to cargo handling and stowage at the management level and in doing so, satisfy company, national, and international regulations for candidates for certification as master or chief mate as noted below:

- STCW Code A-II/2 Competence
- Plan and ensure safe loading, stowage, securing, care during the voyage, and unloading of cargoes
- Carriage of dangerous cargoes

Entry standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard/STCW-95. Students shall meet following:

- Hold a STCW-95 certification as an officer in charge of a navigational watch (OICNW).
- In good physical health.
- Speak and understand English.
- At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Celestial Navigation (Management Level) (STRCTR-110)

Length 42 hours (1 week)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification for navigation at the management level on ships of 500 gross tons or more shall be required to demonstrate the competence to undertake, at the operational level, the tasks, duties, and responsibilities listed in column 1 of Table A-II/2 in the STCW Code 95. This course is intended to meet the requirements for celestial navigation.

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 management level and in doing so, satisfy company, national, and international regulations for candidates for certification as chief mate and master as follows:


Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students should be licensed at the level of unlimited second mate or have equivalent and experiential background and the following:

- Hold a STCW-95 certification as officer in charge of a navigational watch (OICNW).
- In good physical health.
- Speak and understand English.
- At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Marine Propulsion Plants (Simulator) (STRCTR-272)

**Length** 40 hours (1 week)

**Scope**
This model course aims to meet the mandatory minimum requirements for knowledge, understanding, and proficiency in Table A-11/2 of STCW 1995 for navigation at the management level.

**Objective**
The objective of the course is to provide students with the detailed knowledge in the operation of remote controls of a propulsion plant and the engineering systems and services.

**Entry standards**
This course is principally intended for second and third mates for certification as master and chief mate on ships of 500 gross tonnage or more (see IMO Model Course No. 7.03, Officer in Charge of a Navigational Watch).

**Teaching Facility**
STAR Center, Dania Beach, Florida
Shipboard Management (STRCTR-454)

Length 40 hours (1 week)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as master and chief mate of ships 500 gross tons or more shall be required to demonstrate the competence to undertake at the management level the tasks, duties, and responsibilities listed in Column 1 of Table A-II/2 in the STCW Code 95. This course is intended to meet the requirements for shipboard management.

Objective
The objective of this course is to provide the student with a review of shipboard management for response to navigational emergencies, maintaining the safety of crew and passengers, and developing emergency and damage control plans, and in doing so satisfy company, national, and international regulations for candidates for certification as master or chief mate as follows:

STCW Code A-II/2 Competence
• Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea and the protection of the marine environment.
• Maintain safety and security of crew and passengers and the operational condition of life-saving, fire-fighting, and other safety systems.
• Develop emergency and damage control plans and handle emergency situations.
• Organize and manage the crew.

AND
• Organize and manage the provision of medical care on board for the function Controlling the Operation of the Ship and Care for Persons on Board at the Management Level.

Entry standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students should have the following:

• STCW-95 certification as an officer in charge of a navigational watch (OICNW).
• Hold a valid mate’s license for service on vessels of 3,000 gross tonnage or more.
• Is in good physical health.
• Speak and understand English.
• At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Advanced Meteorology (STRCTR-18)

**Length**  40 hours (1 week)

**Scope**
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification for navigational duties at the management level on ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the management level, the tasks, duties, and responsibilities listed in Table A – II/2 of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978 as amended in 1995 (STCW 95).

**Objective**
Students completing this course will be knowledgeable of and have proficiency in forecasting weather and oceanographic conditions. Additionally, students will gain knowledge of:

- Synoptic charts
- Weather forecasting
- Ocean current systems
- Calculation of tidal conditions
- Forecasting and routing software systems
- Shipboard damage case study

**Entry standards**
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students should have an STCW certification as an officer in charge of a navigational watch (OICNW) or have an equivalent and experiential background, and the following:

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

**Teaching Facility**
STAR Center, Dania Beach, Florida
STCW Upgrade Navigation (STRCTR-475)

Length 40 hours (1 week)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification for navigational duties at the management level on ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the management level the tasks, duties, and responsibilities listed in Column 1 of Table A-II/2 in the STCW Code 95. This course is intended to meet the requirements for:

- Planning a voyage and conducting navigation.
- Determine a position-terrestrial navigation.
- Navigational software programs.
- GPS, DGPS, and satellite.
- Determine position-chart plotting.
- ECDIS.
- Determine and allow for compass errors.
- Systems of the gyro compass.
- Adaptive steering systems.

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

- STCW Code A-II/2; and
- USCG 46 CFR 10.910 Table 10.910-2.

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students should be licensed at least at the level of unlimited–second mate or have an equivalent and experiential background, and the following:

- Hold an STCW ‘95 certification as officer in charge of a navigational watch (OICNW).
- In good physical health.
- Must speak and understand English.
- At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Shiphandling at the Management Level (STRCTR-459)

**Length** 80 hours (2 weeks)

**Scope**
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as master and chief mate of ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the management level the tasks, duties, and responsibilities listed in column 1 of Table A-II/2 in the STCW Code ’95. This course is intended to meet the requirements for maneuvering and handling a ship in all conditions.

**Objective**
The objective of the course is to provide students with theory and training in shiphandling and in doing so satisfy company, national, and international regulations for candidates for certification as master or chief mate as follows:

- STCW Code A-II/2 Maneuvering and Handle a Ship in all Conditions; and
- USCG 46 CFR 10.910 Table 10.910-2 Ship Maneuvering and Handling.

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

- Approaching pilot vessels
- Ship handling in restricted waters
- Constant rate of turn techniques
- Maneuvering in shallow water
- Interaction with bank, canal, ship, and tug
- Berthing and un-berthing
- Anchoring and dry-docking
- Handling ships in heavy weather
- Navigating in or near ice

**Entry Standards**
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students should have a STCW certification as an officer in charge of a navigational watch (OICNW) or have an equivalent and experiential background, and the following:

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

**Teaching Facility**
STAR Center, Dania Beach, Florida
STCW Upgrade Stability (STRCTR-476)

Length  40 hours (1 week)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as master and chief mate of ships 500 gross tons or more shall be required to demonstrate the competence to undertake at the management level the tasks, duties, and responsibilities listed in Column 1 of Table A-II/2 in the STCW Code 95. This course is intended to meet the requirements for stability.

Objective
The objective of this course is to provide students with a review of stability fundamentals and practices and in doing so satisfy company, national, and international regulations for candidates for certification as master or chief mate as follows:


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

- Understanding theories and factors affecting trim and stability and be able to use tables, diagrams, and stress calculations.
- Have 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 will be understood
- Have knowledge concerning intact stability.

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students should have the following:

- STCW-95 certification as an officer in charge of a navigational watch (OICNW).
- In good physical health.
- Speak and understand English.
- At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Bridge Resource Management (24-hour) (STRCTR-80)

Length  24 hours (3 days)

Scope
This course is a classroom- and simulator-based course designed for the modern ships’ bridge personnel. 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 operations on the bridge of a modern day vessel.

Legal Requirement
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard guidelines enumerated in NMC Policy Letter 04-02 as supported by 46 CFR 10.903(c), every candidate for certification at the management level on ships of 500 gross tons or more (STCW) and 3,000 gross tons or more (USCG) shall be required to demonstrate the competence to undertake at the management level the tasks, duties, and responsibilities listed in column 1 of Table A-II/2 in the STCW Code ’95.

Objective
The objective of this course is to instruct the student in the areas relevant to bridge resource management and in doing so satisfy company, national, and international regulations as stated in Standards of Training Certification and Watchkeeping (1995) Tables A-II/1, A-II/2, and Section B-VIII/2 for competence in knowledge of the following:

- A thorough knowledge of the principles in keeping a navigational watch, and
- Effective bridge teamwork procedures.

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-95. Student minimum prerequisites are:

- Hold a valid certificate/license as rating forming part of a navigational watch (RFPNW) (or national equivalent).
  OR
- STCW ’95 certification as officer in charge of a navigational watch (OICNW).
  OR
- Valid mate’s license or equivalent and experiential background.
  AND
- In good physical health.
- Speak and understand English.
- At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Watchkeeping (Management Level) (STRCTR-547)

**Length** 40 hours (1 week)

**Scope**
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification for navigation at the management level on ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the management level the tasks, duties, and responsibilities listed in Column 1 of Table A-II/2 in the STCW Code 95. This course is intended to meet the requirements for the COLREGS and the Inland Navigational Rules.

**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 chief mate or master as follows:

- STCW Code A-II/2 COLREGS
  - AND
- USCG 46 CFR 10.910 Table 10.910-2 COLREGS and the Inland Navigational Rules

Upon completion of this course, the student 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
- The Inland Navigational Rules

**Entry Standards**
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students should be certified as an officer in charge of a navigational watch (OICNW), have a valid mates license and experiential background, and the following:

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

**Teaching Facilities**
STAR Center, Dania Beach, Florida
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X. OFFICER IN CHARGE OF A NAVIGATION WATCH (OICNW) COURSES
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Terrestrial & Coastal Navigation (STRCTR-512)

Length  80 hours (2 weeks)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification for officer in charge of a navigational watch on ships of 500 gross tons or more shall be required to demonstrate the competence to undertake, at the operational level, the tasks, duties, and responsibilities listed in Column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet the requirements for:

- Planning and conducting a passage and determine position
- Terrestrial and coastal navigation
- Charts
- Compass correction
- Position plotting
- The sailings
- Tides and currents
- Chart work

Objective
The objective of the course is to provide students with the 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 third or second mate as follows:

- STCW Code A-II/1
- USCG 46 CFR 10.910 Table 10.910-2

Upon completion of this course the student will be knowledgeable of and will have demonstrated a proficiency in terrestrial and coastwise navigation.

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students must either qualify as an able seaman-unlimited or able seaman-limited and experiential background and the following:

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

Teaching Facility
STAR Center, Dania Beach, Florida
Ship Construction & Basic Stability (STRCTR-449)

Length  40 hours (1 week)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as second mate and third mate of ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the operational level the tasks, duties, and responsibilities listed in column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet those.

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
- Controlling the operation of a ship
- Maintain seaworthiness of the ship
- Principal of structural members of a ship
- Stability, trim, and stress tables
USCG 46 CR 10.910 Table 10.910-2
- Ship construction
- Basic stability

Upon completion of this course the student will be knowledgeable of and have a proficiency in the following areas:
- Ship construction
- Basic stability

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. 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, and the following:
- In good physical health.
- Speak and understand English.
- At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Electronic Navigation (STRCTR-181)

Length 40 hours (1 week)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as officer in charge of a navigational watch (OICNW) on ships of 50 0 gross tons or more shall be required to demonstrate the competence to undertake at the operational level the tasks, duties, and responsibilities listed in column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet the requirements for:

- Planning and conducting a passage and determine position
- Electronic navigation

Objective
The objective of the course is to provide students with the 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 third mate or second mate as follows:

- STCW Code A-II/1
- USCG 46 CFR 10.910 Table 10.910-2

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students must either qualify as an able seaman-unlimited or able seaman-limited and experiential background, and the following:

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

Teaching Facility
STAR Center, Dania Beach, Florida
Meteorology (Operational Level) (STRCTR-316)

**Length**  40 hours (1 week)

**Scope**
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as second mate and third mate of ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the operational level the tasks, duties, and responsibilities listed in Column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet those requirements.

**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**
  - Meteorology
- **USCG 46 CFR 10.910 Table 10.910-2**

Upon completion of this course, the students will be knowledgeable of:

- Meteorological instruments on ships
- Atmospheric properties
- Atmospheric pressure
- Wind
- Clouds and precipitation
- Visibility, climatology
- Weather systems, weather forecasting
- Weather observation and reporting
- Weather routing and services

**Entry standards**
The course is open to students who have a need for such training as required by the United States Coast Guard/STCW-95. Students should have experiential background and the following:

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

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

Length 80 hours (2 weeks)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as second mate and third mate of ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the operational level the tasks, duties, and responsibilities listed in column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet those requirements.

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
- Voyage planning
- COLREGS
- Bridge teamwork
- Pollution prevention

USCG 46 CFR 10.910 Table 10.910-2
- Rules of the Road
- Safe watchkeeping
- Pollution prevention

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. 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, and the following:

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

Teaching Facility
STAR Center, Dania Beach, Florida
Cargo Handling & Stowage (Operational Level) (STRCTR-100)

**Length**  40 hours (1 week)

**Scope**
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification for officer in charge of a navigational watch on ships of 500 gross tons or more shall be required to demonstrate the competence to undertake the tasks, duties, and responsibilities listed in Table A – II/1 of STCW 1995 for the function cargo handling and stowage at the operational level.

**Objective**
Students completing this course will be knowledgeable of and have proficiency in cargo operations, cargo handling, and cargo stowage. Additionally, students will gain knowledge of:
- Draft, trim, and stability
- Securing cargo
- Cargo care (inspection and preparation of holds, segregation and separation of cargoes, ventilation and control, and refrigerated cargo)
- Deck cargo
- Container cargo
- Ro-Ro cargo
- Cargo handling (equipment and safety)
- Dangerous cargo
- Tanker ships
- Solid bulk and bulk grain cargo
- Confined space entry
- Stowage calculations

**Entry standards**
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students must either qualify as an able seaman-unlimited or able seaman-limited with experiential background and the following:
- In good physical health.
- Speak and understand English.
- At least 18 years of age.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Basic Shiphandling (STRCTR-71)

**Length** 40 hours (1 week)

**Scope**
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as second mate and third mate of ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the operational level the tasks, duties, and responsibilities listed in column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet those requirements.

**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 10.910 Table 10.910-2**
- Basic Shiphandling

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.

**Entry Standards**
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. 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 and the following:
- In good physical health.
- Speak and understand English.
- At least 21 years of age.

**Teaching Facility**
STAR Center, Dania Beach, Florida
Emergency Procedures & SAR (STRCTR-184)

Length 31½ hours (4 days)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as second mate and third mate of ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the operational level the tasks, duties, and responsibilities listed in column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet those requirements.

Objective
The objective of the course is to provide students with the 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
• Respond to emergencies
• Respond to distress signals at sea
USCG 46 CFR 10.910 Table 10.910-2
• Emergency procedures
• Search and rescue

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. They must be:
• In good physical health.
• Speak and understand English.
• At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Celestial Navigation (Operational Level) (STRCTR-114)

Length 81 hours (2 weeks)

Scope
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification as officer in charge of a navigational watch of 500 gross tons or more shall be required to demonstrate the competence to undertake at the operational level the tasks, duties, and responsibilities listed in column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet those requirements.

Objective
The objective of the course is to provide the student 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 officer in charge of a navigational watch as follows:

- STCW Code A-II/1 Celestial Navigation
- USCG 46 CFR 10.910 Table 10.910-2 Celestial Observations and Times of Celestial Phenomena

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

- Solar system
- Celestial sphere
- Equinoctial system co-ordinates
- Hour angles, *The Nautical Almanac*
- Daily motion and horizon system co-ordinates
- Sextant and altitude corrections
- Amplitudes
- Time and equation of time
- Latitude by meridian altitude
- Pole star observations
- Position fixing

Entry Standards
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students should 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.
- At least 21 years of age.

Teaching Facility
STAR Center, Dania Beach, Florida
Magnetic & Gyro Compasses (Operational Level) (STRCTR-263)

**Length** 22 hours (3 days)

**Scope**
In accordance with the Standards of Training, Certification and Watchkeeping (STCW) Code of 1995 and U.S. Coast Guard regulations every candidate for certification for officer in charge of a navigational watch on ships of 500 gross tons or more shall be required to demonstrate the competence to undertake at the operational level the tasks, duties, and responsibilities listed in column 1 of Table A-II/1 in the STCW Code 95. This course is intended to meet those requirements.

**Objective**
The objective of this 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 third or second mate as follows:

- STCW Code A-II/1
- USCG 46 CFR 10.910 Table 10.910-2

Upon completion of this course the student will be knowledgeable of and will have demonstrated a proficiency in magnetic and gyro compasses.

**Entry Standards**
The course is open to students who have a need for such training as required by the U.S. Coast Guard / STCW-95. Students must either qualify as able seaman-unlimited or able seaman-limited with experiential background and the following:

- In good physical health.
- Speak and understand English.
- At least 18 years of age.

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