



Massachusetts Maritime Academy
STCW Survival Craft
Course: MT-1231 (Credits: 2)
Spring Semester Academic Year 2014

Lecture Instructors:

Laboratory Instructors:

Capt. Edward Bruce	Office: SeaLab
Capt. Kurt DeCiccho	Office: 321A
Mate Edward Vacha	Office: 321A

Course Description:

This course covers all the necessary subject matter required by STCW Table A-VI/2-1 for Proficiency in Survival Craft and Rescue Boats, other than fast rescue boats, not already covered within MT-1121 (STCW Basic Training). It will introduce and/or review various operations related to Survival Craft and Rescue Boats including:

- Knowledge of their types, their launching apparatus and arrangements.
- Knowledge of their launching, boarding and recovering operations in good and rough weather.
- Knowledge of inherent dangers in use of emergency gear.
- Knowledge of the operation of all equipment found aboard.
- Effective operations with helicopter evacuations and beaching.
- Knowledge and skill in the rowing of
- Knowledge and skill in the operation and maintenance of motorized equipment
- Knowledge and skill in steering the craft/boat.

Learning Objective

- The objective of this course is to:
- Establish proficiency in survival craft and rescue boats
- Obtain the knowledge necessary to safely enable the candidate to launch and take charge of a survival craft or rescue boat in emergency situations.

Learning Outcomes:

At the completion of this course, each cadet will have demonstrated their competencies to undertake the tasks, duties and responsibilities listed in Table A-VI/2-1.

Upon completion of this course, students will:

- Be able to safely plan and conduct an abandon ship drill
- Demonstrate their knowledge and use of all survival craft equipment
- Demonstrate their ability to safely lower, board and recover survival craft
- Demonstrate their ability to increase survival chances for personnel in survival craft
- Demonstrate their knowledge of all types of launching devices for survival craft
- The student will have the necessary knowledge, skill, understanding and proficiency to satisfactorily complete the practical assessments found within the following course: STCW Qualifications: LB-0201.

Prerequisites

This course is open to any cadet who has successfully passed MT-1121 STCW Basic Training – Including assessment and minimum 70% grade, and must be successfully completed before enrolling for Sea Term II, either aboard the T.S. Kennedy(MT) or Sophomore Commercial Shipping (ME).

Teaching Facilities and Equipment

The course will be presented in the Massachusetts Maritime Academy's academic facilities. A classroom or lecture hall equipped with a black/white board or flip chart supported by audio-visual aids when making use of audio-visual materials such as personal computer presentation software, transparencies, videos or slides will be provided for lectures.

In addition, practical demonstrations and/or drills will be conducted at the Academy's fully equipped Sea Laboratory, swimming pool, and waterfront facilities as well as aboard the Training Ship Kennedy, Training Vessel Ranger as well as motor whale boats and monomoys whenever the instruction or practical exercises require access to water or use SOLAS/U.S. Coast Guard approved survival equipment.

Training Aids

- A1 Classroom notes/handouts
- A2 Audio-visual aids: PowerPoint presentations
- A3 Audio-visual aids: Video projector
- A4 Audio-visual aids: Multimedia projector with computer
- A5 Personal computer
- A6 T.S. Kennedy, equipment and fittings
- A7 T.V. Ranger, equipment and fittings
- A8 Certified lifeboat/gravity davit

- A9 Motor whale boat
- A10 USCG certified inflatable liferaft cradle and davit launch/immersion suits
- A11 USCG approved covered lifeboat
- A12 Monomoy (pulling) rowing boat

Safety Routines

Safety precautions during drills are a major component of this course, and affect its organization. Trainees must be protected from danger at all times whilst the course is in progress. Instructors and their assistants must strictly supervise the trainees, and act as their safety guards. First aid supplies, including a resuscitation kit, must be close at hand. If drills are to take place in the sea, a rescue boat must be in attendance.

References (R)

- R1 The International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1995 as amended in Manila in 2010.
- R2 International Maritime Organization Model Course 1.23: “Proficiency in Survival Craft and Rescue Boats Other than Fast Rescue Boats”
- R3 *Survival Craft* – Witherby Seamanship International Jan 2008, ISBN 10: 1-905331-35-5
- R4 *Lifeboat Release Hooks* - Witherby Seamanship International Jul 2011, ISBN 10: 1-85609-496-0
- R5 *Shipboard Drills* - Witherby Seamanship International Jun 2012, ISBN 10: 1-85609-554-1
- R6 Table of Life Saving Signals

Textbooks (T)

- T1 Hayler, W.B., Keever, J.M. and Seiler, P.M., *The Cornell Manual for Lifeboatman, Able Seamen and Qualified Members of the Engine Department*, 1 st ed, (Centerville, MD: Cornell Maritime Press, 1984) ISBN 0-87033-313-5
- T2 *Marine Survival* - Witherby Seamanship International May 2011, ISBN 10: 1-85609-355-7

Bibliography/Textbooks (B)

- B1 The International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1995 as amended in Manila in 2010.
- B2 *Marine Survival* - Witherby Seamanship International May 2011, ISBN 10: 1-85609-355-7

Course Structure

This course is two credits, involving one 1-hour lecture per week and thirteen two-hour laboratories. The lecture segment will provide theoretical and practical knowledge to demonstrate competency in the topic areas. The laboratory segment complements the lectures by providing practical application of the theoretical and to develop the skills necessary to demonstrate proficiency. Lecture syllabus and laboratory schedules are included in this information package.

Methods of Demonstrating Competence

The methods chosen to carry out an evaluation will depend upon what the candidate is expected to achieve in terms of knowledge, comprehension, and application of the course content. The methods used may include:

- Direct observation and participation in classroom training.
- Oral examination a simple question-and-answer discussion with the candidate (either individually or as a group).
- Written tests
- Practical demonstrations

Academic Accommodations

Massachusetts Maritime Academy is committed to providing reasonable accommodations to students with documented disabilities. Students who believe they may need accommodations in this class are required to contact Professor Fran Tiskevich, Director of Disability Compliance, within the first two weeks of class at ftiskevich@maritime.edu Harrington Room H 311A or Extension 2208.

Examinations and Grading

A minimum of four Examinations/Quizzes will be administered during the lecture segments. The minimum passing grade is 70% for STCW certification. This is determined by averaging all tests, quizzes and homework. Lecture examinations will be announced and given during a full or half lecture period. In the laboratory segments one final exam will be given, which may take the form of either multiple choice or short answer. Both the lecture and laboratory instructors may give unscheduled quizzes at their discretion. Always carry a No. 2 pencil with you to class and to Lab.

Final Exam

The final exam will be held during the final exam week in June. The final examination will consist of questions on information covered over the semester.

Final Grade

Quizzes, unit exam and final exam	80%
SeaLab quizzes	<u>20%</u>
	100%

The following is a breakdown of the final course grading:

93.0-100	A
90.0-92.9	A-
87.0-89.9	B+
83.0-86.9	B
80.0-82.9	B-
77.0-79.9	C+
73.0-76.9	C
70.0-72.9	C-
67.0-69.9	D+
63.0-66.9	D
60.0-62.9	D-
< 60.0	F

Failure to complete laboratory practical demonstrations will result in an incomplete for the course until satisfied. A grade below C- will require a repeat of the entire course.

Practical Assessment:

You will also have three Pass/Fail practical assessments within the laboratories:

- Ability to Row
- Ability to command a rowing craft
- Ability to properly lower, board and recover a survival craft.

Non passage of any of these three assessments will result in an incomplete for this course and the inability of the student to progress to STCW Qualifications LB-0201.

Assessments will be done during lab time. Should you need extra training, it should be arranged with the lab instructor for a mutually agreeable practice time.

Should you fail the assessment, or not do the assessment, you will receive an incomplete in this course until such time as a reassessment can be scheduled and you pass it. At that time, your appropriate grade will be entered for you, and ONLY THEN, will you be eligible for Sophomore Sea Term.

Attendance Policy

ATTENDANCE AT ALL CLASSES AND LABORATORIES IS MANDATORY. Cadets repeating this class must retake all sections and the laboratory. Unauthorized absence will not be tolerated. Disciplinary action and/or grade point reduction will be

administered to repeat offenders. More than four (4) absences from classroom lectures and/or Labs will result in a failure of the course.

Instructors will dismiss cadets who are found sleeping in class. Dismissal from class will be considered an absence for that class.

If absences occur due to illness, the student must notify the instructor as soon as possible for make-up work and assignments. The instructor must be informed of all special liberty requests well in advance of the respective date. Authorized absences must be reported to the instructor prior to the missed class. Make-up examinations for authorized absences will be scheduled for a mutually agreed upon time. All work and examinations missed, as a result of an unauthorized absence, will result in a ZERO.

Syllabus Changes

The syllabus and course schedule is tentative and may be adjusted as required. Notice of changes will be made to cadets as soon as possible.

Classroom and Laboratory Policies

Cadets will wear the appropriate uniform of the day when in the classroom, and the issued boiler suits with safety gear while in Lab. Laboratories will be conducted in all weather conditions. Always bring appropriate clothing, such as a warm jacket and rain gear. Cadets will not be excused from Lab because of the lack of a jacket or rain gear. Pocket knives are required at all times.

Eating, drinking, or the use of tobacco products is prohibited during all classes and laboratories.

Cell phones are not allowed at any time during class or SeaLab.