

MASSACHUSETTS MARITIME ACADEMY

DEPARTMENT OF MARINE TRANSPORTATION

APPLIED SHIPHANDLING I (MT3231)

Course Objective

The students who have successfully completed Applied Shiphandling I will have gained experience in handling vessels actual and simulated under various conditions and thereby will be able to make a more effective contribution to the bridge team during ship maneuvering operations. In particular, students will gain familiarization in the use of engines and helm for ship maneuvering, an understanding of the effects on the behavior of the ship due to wind, current, and narrow channels, and condition of loading. The student will also gain a greater awareness of the importance of passage planning, application of the COLREGS, piloting, contingency planning, and a greater understanding and awareness of efficient bridge procedures.

This program is designed to provide the students with the opportunity to further develop skills and proficiency in topics of study offered in the prerequisites: MT2231 (Basic Seamanship), MT3371 (Sea Term III), or MT3372 (Commercial Sea Term), MT3122 (Radar); corequisite: MT3222 (ARPA).

Professor

Captain George A. Benway III

Office: HAR 318A Ext: 1504 gbenway@maritime.edu

Office hours: Mon, Wens, & Thurs 1200-1300

Text

APPLIED SHIPHANDLING RANGER MANUAL (11th Edition)

Captain Patrick J. Modic

Grading

- A. The instructor intends to administer four short tests while on board the T/V Ranger. There will not be a test administered in the first lab nor during the New Bedford lab. The weekly tests are intended to assess the student's preparedness to execute the scheduled training evolution for that particular day. **The tests will be based on material and lessons in the assigned readings, prerequisite classes, as well as prior labs.**
- B. In the process of executing the tasks that comprise the scheduled learning objectives, students will be individually assessed on their attitude and aptitude. This weekly participation grade is a qualitative assessment (as described in the "Show / Demonstrate" section of each module) in five major areas: timeliness, attitude, preparation, initiative, and demonstrable skills. These areas are each worth 2 pts towards a total of 10 for a given lab.
- C. The Ranger component of the Applied Shiphandling I grade will be comprised of the average of weekly tests weighted 70% and weekly participation scores 30%. There will be a combined Final exam with both RANGER and Simulator questions.
- D. There are four examinations in this course. The first examination will be held during the second lab and will cover the aforementioned subject matter for both the first and second labs. Each subsequent test will be comprised of material relevant to that day's assignments as well as all prior material including prerequisite classes.
- E. **There is no STCW component to Applied Ship I.**
- F. The established prerequisites to this course are to establish a minimum professional competency prior to entering this program. It is not the purpose of this program to reintroduce the student to basic navigational elements such as; buoyage systems, tides and currents, set and drift, the use of a D.R., concepts of rules of the road to include lights shapes and sounds, use and proper operation of a radar etc. Students are expected to be competent in the above professional areas as a condition for entry into this program. Students will be tested weekly in these subject matter areas to insure that these skills, if not already attained, are achieved in order to support the demands of more demanding labs in the future

Learning Outcomes

Upon successful completion of Applied Shiphandling I the student will become familiar with the safe operation of a vessel. This will include navigation, linehandling, emergency procedures, vessel operational and lifesaving systems, anchoring, radar navigation, collision avoidance and operating within the COLREGS. The students will have operated the T/V RANGER in coastwise exercises and docking evolutions. They will be introduced to, and have had an opportunity to practice the six STCW competencies they will be required to demonstrate in Applied Ship II. The student will have the knowledge, and experience, in getting a vessel underway, completing a voyage through proper voyage planning and safely arriving back in port.

Miscellaneous

- A. The Academic Code of Conduct will be strictly enforced.
- B. Each student is responsible for assignments and work covered in the scheduled training evolution whether he/she is present or not.
- C. Attendance is a course requirement. Because of the sea time connected with the completion of this program, there are no unauthorized absences. More than one emergency absence, for **whatever reason**, will result in an incomplete. If a student misses a lab they shall report to the instructor as soon as possible to arrange a makeup lab. An incomplete will turn into a failure two weeks into the next semester.
- D. Office hours are established to allow the student the opportunity to consult with the instructor. Office hours are the ideal forum to discuss individual professional progress and to answer additional questions. If you are having a problem, do not hesitate to see your instructor. The instructor will be pleased to schedule individual appointments.
- E. 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 Tishkevich, Director of Disability Compliance at ftishkevich@maritime.edu or ext 2208.

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APPLIED SHIPHANDLING (MT3231)

RANGER COMPONENT

Fall 2012

From: Capt. George Benway, Instructor
To: Applied Shiphandling I Students
Subject: *Auxiliary Training Vessel RANGER*, training schedule.

1. The *T.V. Ranger* will be made available for cadet navigation and seamanship training in accordance with the schedule provided in paragraph 5.
2. Students will report to the *T.V. Ranger* for the indicated in paragraph 5. A section scheduled for training on a given date and not scheduled for the *T.V. Ranger* will report to the ship simulator (see attached schedule).
3. In preparation for each Ranger Lab, students will read and study the assigned chapter contained in the Applied Shiphandling Ranger Manual, 11th Edition, by Captain Patrick J. Modic, and the assigned readings at the beginning of each assigned chapter. Additionally each student will know the tides, currents, and weather for the day's voyage. Students will report to the *T.V. Ranger* on their assigned dates prepared to begin the lab with proper uniforms as indicated by the Commandant's Office for lab classes, to include steel-toed boots, flashlights, pocket knives, work gloves, and foul weather gear. It is advised that you dress very warmly with layers of clothing, as you will be spending time both inside the wheelhouse and on deck. Do not assume that adverse weather will result in a lab cancellation. Voyage cancellations are at the discretion of the Master of the T.V. RANGER, Captain Willie Bank
4. The date indicated for SHIPHANDLING 0-Dock/Undock will be carried out in New Bedford. As the date near, arrangements will be made for transportation, meals, and permission from the Commandant's Office for missing morning formation on that day.

5. There are six laboratories for this course. Laboratory Schedule as follows:

<u>LAB NUMBER / TRAINING SUBJECT</u>	<u>READING ASSIGNMENT</u>
1) SYSTEMS I & SYSTEMS II	Chapters 1,3,5,6,7
2) SHIPHANDLING I	Chapters 2,11,A-2
3) COMPASS COMPARISON & RADAR SYST. & NAV	Chapters 8,9,15, A-IV
4) COASTAL NAVIGATION EXERCISE 1	Chapters 10,15,A3
5) SHIPHANDLING II (IN N.B.)	Chapters 3,4,12
6) COASTAL NAVIGATION EXERCISE 2	Chapter 10

6. Students are to be aboard the *T.V. Ranger* at 0730 for an 0800 departure. Arrangements are made with the Commandant's office for being excused from morning formation on the dates that you will be on the *T.V. Ranger*. In the event of a cancellation, the dates and/or order of training events may be changed.

7. During each session aboard the *T.V. Ranger* cadets will be assigned duties on the T.V. RANGER EMERGENCY STATION BILL BILLET (APPLIED SHIPHANDLING RANGER MANUAL, 11th ed., pages 2-1 and 2-2, Capt. Patrick J. Modic). Cadets will be assigned a different duty each session in order that everyone is given a chance at each of the different assignments (Billets 4 through 7). **You will always be expected to know your billet and emergency station / assignment upon signing aboard the vessel.**

8. Assignment of these training subjects is derived from IMO Shiphandling, Bridge Resource Management, and *T.V. Ranger* Joint Training Programs (Version: SHBRMTVR 01-98).

9. The Academic Code of Conduct for the Massachusetts Maritime Academy will be strictly enforced. Cheating will result in a failure (F) for the course and notifications will be made to the Academic Dean's Office and Commandant of Cadets Office for further action.