

**MASSACHUSETTS MARITIME ACADEMY
DEPARTMENT OF MARINE TRANSPORTATION
BRIDGE RESOURCE MANAGEMENT (MT4131)
RANGER COMPONENT**

Learning Objectives

The students who have successfully completed Applied Shiphandling II will have gained experience in handling vessels in actual and simulated 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, narrow channels, and condition of loading. The student will also gain a greater awareness of the importance of passage planning or maneuvering, vessel operations, navigation, use of radar, bouyage systems, piloting, application of the COLREGS, docking, contingency planning, and a greater understanding of efficient bridge procedures.

This program is designed to provide the students with the opportunity to develop skills and proficiency in topics of study offered in the following prerequisites: MT1221 (Coastal Navigation), MT2231 (Basic Seamanship), MT2161 (Rules), MT3222 (ARPA), and MT3231 (Applied Ship Management)

Instructor

Captain George A. Benway III

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

Office Hours; Mon Tues 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. The first will be given during the second lab and will include material from both labs. The weekly tests are intended to assess the student's preparedness to execute the scheduled training evolution for that particular day. **Questions on the tests will be based on material and lessons found in the assigned readings, prerequisite courses, and 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 in five major areas: timeliness, attitude, preparation, initiative, and demonstrable skills. Each area listed above is worth 2 points for a possible total of 10 for a given lab.
- C. The Ranger component of the Bridge Resource Man. grade will be comprised of the average of weekly tests weighted 70% and weekly participation 30%. There will be both RANGER and Simulator questions on the final exam.
- D. The final Bridge Resource Man. grade will be comprised of both the simulator grade and the Ranger grade each worth 50%.
- E. There are seven performance-based assessments (STCW) associated with this course (these are described in appendix 1). The performance-based assessments are Pass/Fail. These performance-based assessments will be administered during the academic semester. Per departmental policy individuals will be allowed two opportunities during the lab period to demonstrate proficiency. Individuals failing to pass the performance-based assessments will be issued an incomplete for the semester if they otherwise pass the course.

Learning Outcomes

Upon successful completion of Bridge Resource Man. the student will be familiar with the safe operation of a vessel. This will include navigation, linehandling, emergency procedures, vessel operational and lifesaving systems, anchoring, radar navigation and collision avoidance and operating within the COLREGS. The students will have operated the T/V RANGER in coastwise exercises and docking evolutions. They will have successfully completed six STCW competencies demonstrating some of the aforementioned evolutions. The student will have the knowledge, and some experience, in getting a vessel underway, completing a voyage through proper voyage planning and safely arriving back in port.

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RANGER COMPONENT

Fall Semester 2012

From: Capt. George A. Benway III, Instructor
To: Applied Shiphandling II 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 6 and the calendar provided herein.
2. Students will report to the *T.V. Ranger* for their respective modules on labs indicated in paragraph 6. A section scheduled for training on a given date will report to the vessel, and those not scheduled for the *T.V. Ranger* will report to the ship simulator.
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 students will know the tides, currents, and weather for the day's voyage. The Coast Guard course approval mandates that each student completes a minimum of four hours of preparation for each scheduled lab. 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 Bank.
4. The lab indicated for SHIPHANDLING II-Dock/Undock will be carried out in New Bedford. As the date nears arrangements will be made for transportation.

5. There will be four examinations given starting on the second lab. The first test will be comprised of material from prerequisite subjects to include; rules, radar, seamanship etc. as well as the required reading and notes from the first two labs. Each subsequent week's test will focus on the Modules assigned for that particular week, however all material covered in prior labs, readings and prerequisite classes may be on tests as well.
- 6.

<u>LAB</u>	<u>TRAINING SUBJECT</u>	<u>READING</u>
1)	SHIPHANDLING I & RADAR SYSTEMS	Chapters 11 & 15
2)	MAGNETIC COMPASS DEVIATION	Chapters 8 & 9
3)	COASTAL NAV. EX. & ANCHOR WORK	Chapters 10 & 13
4)	COASTAL NAVIGATION EXERCISE I	Chapters 10
5)	SHIPHANDLING II-DOCK/UNDOCK	Chapters 12
6)	COASTAL NAVIGATION EXERCISE II	Chapters 1-16

7. Students are to be aboard the *T.V. Ranger* at 0730 for an 0800 departure. In the event of a cancellation, dates, and/or the order of training events may be adjusted.
8. 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). **Cadets are required to know their emergency station / assignment upon signing on board.**
9. Assignment of these training subjects is derived from IMO Shiphandling, Bridge Resource Management, and *T.V. Ranger* Joint Training Programs (Version: SHBRMTVR 01-98).

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. It is not the purpose of this program to reintroduce the student to basic navigational elements such as bouyage systems, tides and currents, set and drift, the use of a D.R., the concepts of the rules of the road (to include lights shapes and sounds), radar operation etc. Although these subjects will be discussed in the lab, students are expected to be competent in the above areas as a condition for entry into this program. Students will be tested weekly in these subject matters to insure that these skills if not already attained, are achieved in order to support more demanding labs in the future.
- D. 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. A Cadet who misses a lab shall report to the instructor ASAP to arrange a makeup lab. An incomplete will turn into a failure two weeks into the next semester.
- E. 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. Students schedules may conflict with the posted office hours, therefore the instructor will make themselves available around the students schedule when necessary. If you are having a problem, do not hesitate to see your instructor.
- F. If you are a student with a documented learning disability, and feel you will need accommodations in this class, please contact the Disability Resource Officer Professor Tishkevich at ext 2208 or e-mail her at ftishkevich@maritime.edu to discuss appropriate accommodations as allowed by the ADA/USCG.
- G. You will be treated and expected to behave as the professionals you are aspiring to be.