

Massachusetts Maritime Academy

Engine Room Resource Management: - Syllabus: Spring 2016

Objective: This course is designed to provide an officer in charge of an engineering watch an understanding of the proper utilization and considerations given to resources available in a maritime engine department.

Areas of study covered in this course are spelled out in STCW table A-III/I and include:

- Organization and Procedures
- Situational Awareness
- Communications
- Stress
- Leadership and Team Building
- Fatigue
- Cultural diversity

Each student successfully completing this course should have an understanding of the concepts and methods used to achieve an acceptable level of efficiency and safety with regards to the utilization of engine room personnel and assets.

The course fulfills the requirements of Section A-III Table A-III/I of the STCW 2010 code: Marine Engineering at the Operational Level : Maintaining a safe engineering watch: Engine Room Resource Management by fulfilling the following learning objectives:

Demonstrate knowledge and understanding of the following STCW elements:

- OICEW-A1.4 Allocation, assignment, and prioritization of resources
- OICEW-A1.4 Effective communication
- OICEW-A1.4 Assertiveness and leadership
- OICEW-A1.4 Obtaining and maintaining situational awareness
- OICEW-A1.4 Consideration of team experience
- OICEW-D7.4 Knowledge and ability to apply effective resource management
- OICEW-D7.4 Allocation, assignment, and prioritization of resources
- OICEW-D7.4 Effective communication on board and ashore
- OICEW-D7.4 Decisions reflect consideration of team experiences
- OICEW-D7.4 Assertiveness and leadership, including motivation
- OICEW-D7.4 Obtaining and maintaining situational awareness
- OICEW-D7.5 Knowledge and ability to apply decision-making techniques
- OICEW-D7.5 Situation and risk assessment
- OICEW-D7.5 Identify and consider generated options
- OICEW-D7.5 Selecting course of action
- OICEW-D7.5 Evaluation of outcome effectiveness

Format: The course will contain lectures, group discussions and case studies and one take home assignment.

Duration: 8 total hours held over two days.

The student must attend both course days plus complete the take home exercise in order to receive credit for the course.