

MNG 250 - FLUID SYSTEMS

Course Description

This course will introduce the cadet to the shipboard hydraulic and pneumatic systems. The cadet will be introduced to the principles of fluid power: theory, components construction, operation, installation and maintenance, with an overview of these systems on a ship. STCW.

Credit Hours

3

Contact Hours

3

Lecture Hours

3

Lab Hours

1

Required Prerequisites

All prerequisites for all GLMA courses are satisfied by following the approved Course Sequence Guide and any deviation from this guide needs to be approved by the cadet's adviser.

Course Learning Outcomes

Knowledge:

- Learn safe operation of all aspects of a ships unloading system.
- Learn maintenance procedures for all aspects of a ships unloading system.

Application:

- Identify the components of a vessel's unloading systems.
- Identify the procedures for maintenance of a vessel's unloading equipment.

Integration:

- Demonstrate repair processes for merchant vessel unloading systems.
- Demonstrate maintenance procedures for merchant vessel unloading systems.

Human Dimension:

- See themselves as a key component of a large organization,.
- View knowledge of repair and operation as integral to the safe operation of a vessel, and its ability to function as a commercial entity.

Caring - Civic Learning:

- Appreciate the importance of safely functioning machinery.

Learning How to Learn:

- Demonstrate the STCW Code Knowledge, Understanding and Proficiencies for Ratings Forming Part of an Engineering Watch: 1.2.B.
- Demonstrate the STCW Code Knowledge, Understanding and Proficiencies for Officer in Charge of an Engineering Watch: 4.1.A.