

# MDK 445 - LIQUID CARGO STOWAGE

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- Demonstrate the STCW Code Knowledge, Understanding and Proficiencies (KUPs) for Officer in Charge of a Navigation Watch: 12.1.A, 12.2.A, 12.3.A.

## Course Description

A study of the tanker industry and the operational aspects of the tank vessel, pollution, prevention, precautions and procedures; layouts of different types of tankers; operations sequence and oil tanker construction and terminology. USCG and OPA '90 regulations will be covered. STCW

## Credit Hours

2

## Contact Hours

2

## Lecture Hours

2

## 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.

## Recommended Prerequisites or Skills Competencies

ENG 111 and MTH 111

## Course Learning Outcomes

### Knowledge:

- Describe general principles of tank ship construction.
- Describe tank ship design criteria for hull superstructure.
- Describe the loading and unloading processes for vessels that carry of liquid cargo.
- Describe the applicable regulations, both domestic and international, that pertain to carriage of liquid cargoes by vessel.

### Application:

- Recognize tank ship hull nomenclature.
- Apply regulations to specific liquid cargoes.
- Articulate pollution reporting requirements.

### Integration:

- Load a vessel taking into consideration hull characteristics.
- Properly load a tank vessel making use of the cargo compatibility tables contained in applicable regulations.

### Human Dimension:

- Recognize the relationship between government regulations and shore side operations including MARPOL international treaties.
- See themselves as professional merchant marine officers.
- See themselves as liquid cargo officers as well as officers in charge of a navigational watch.

### Caring - Civic Learning:

- Recognize their responsibilities as a marine environment stewards to report environmental issues to appropriate agencies.

### Learning How to Learn: