

# MDK 149 - DAMAGE CONTROL & SAFETY

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which may result in an economic loss, loss of life, or environmental damage.

## Learning How to Learn:

- The students will research and analyze a documented marine casualty/mishap due to a fire and present the class with a case overview, analysis, lessons-learned, and preventative recommendations.
- The student will apply study strategies to prepare for examinations.

## Course Description

This course is designed to give the cadet a comprehensive knowledge of shipboard safety with particular emphasis on firefighting and damage control. Subject areas include: personal safety, pollution, U.S. Coast Guard rules and regulations, temporary damage repair, shoring principles and practical shoring problems. STCW. Group 2 course.

## Credit Hours

2

## Contact Hours

2

## Lecture Hours

2

## Required Prerequisites

All prerequisites for all GLMA courses are satisfied by following the approved curriculum guide and any deviation from this guide needs to be approved by the department head.

## Course Learning Outcomes

### Knowledge:

- Students will understand chemistry and physics of fire.
- Students will identify fire detection equipment, fire extinguishing agents, and portable and fixed fire extinguishing systems.
- The student will describe fire prevention methods, safety precautions, and fire fighting tactics.

### Application:

- Students will locate and identify portable and fixed fire fighting systems aboard the training vessel State of Michigan.
- Students will explain procedures for inspection and maintenance of fire fighting equipment and complete fire plan review for accuracy and regulatory compliance.

### Integration:

- Students will complete diagram of onboard Fire Main system on training vessel State of Michigan.
- Students will locate fire fighting activation stations and operate Class A fire doors aboard training vessel State of Michigan.
- Students will review Fire Plan and complete Fire Survey of designated spaces aboard training vessel State of Michigan.

### Human Dimension:

- The students will work in teams to complete 3 hands-on projects aboard the training vessel State of Michigan.
- The students will utilize their knowledge of shipboard fire fighting to evaluate peer Case Study presentations.

### Caring - Civic Learning:

- The student will recognize the role shipboard fire prevention, maintenance, periodic inspections and training has towards the reduction in marine casualties due to fire, collision, or grounding