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# NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES (NIEHS)

## Hazardous Waste Worker Training Program and HAZMAT Disaster Preparedness Training Program



Nova Southeastern University Dr. Kiran C. Patel College of Osteopathic Medicine  
Project SEAMIST/Project HazMIRTSI

## SEAMIST TRAINING

### Who should attend?

- HAZMAT first responders (law enforcement, fire rescue, etc.)
- HAZMAT technicians
- port and oil platform workers
- emergency medical technicians/paramedics
- emergency management personnel
- workers who handle, move or remove, ship, or transport hazardous materials
- tugboat operators
- drivers who transport hazardous materials
- other community and business stakeholders

### Available Courses

The **Hazardous Materials Awareness** course involves **8 hours** of classroom instruction, case studies, and interactive tabletop scenarios emphasizing awareness of potentially hazardous materials that are handled, transported, or loaded and unloaded in a maritime setting through mechanisms such as labels and markings, the *Emergency Response Guidebook*, or information stations. In addition, this course stresses the concept of “observe and report” in the case of an incident, with an emphasis on keeping the trainees and others a safe distance from the hazardous material.

The **Hazardous Materials Operations** course is designed to educate trainees in the defensive aspects of handling hazardous materials spills and incidents through **16 hours** of classroom instruction and hands-on activities, with 8 hours of Awareness-level training completed as a prerequisite. Defensive efforts include activities to prevent the spread of leaked or spilled materials through actions such as damming and diverting, as well as the proper use of personal protective equipment (PPE), including the donning (putting on) and doffing (taking off) of PPE.

The **Hazardous Materials Incident Commander** course is a **16-hour** course that introduces multiple offensive techniques used to effectively control a hazardous materials incident. Through classroom instruction, tabletop scenarios, and hands-on activities, participants learn how to

intervene and stop a hazardous leak or spill, as well as how to prevent the spread of hazardous material through active means. Participants learn how to utilize the National Incident Management System, as well as safely work within a hazardous materials incident scene given the scope of personnel and limited resources available.

The **Hazardous Materials Refresher** course is an **8-hour** training course that can be taken on any day during the Awareness, Operations, or Incident Commander-level training. The course reinforces knowledge and provides trainees with updates on current health and safety practices relevant to the maritime industry. Course content is updated regularly to reflect and address new and emerging trends, practices, and topics.

*The Hazardous Waste Operations and Emergency Response (HAZWOPER) trainings and field exercises satisfy the minimum requirements outlined in the U.S. Occupational Health and Safety Administration (OSHA) 29 CFR 1910.120 and the NIEHS WTP Minimum Health and Safety Training Criteria for HAZWOPER.*

## HazMIRTSI TRAINING

### Who should attend?

- HAZMAT first responders (law enforcement, fire rescue, etc.)
- port authority and marine facility operators
- longshoremen
- vessel masters and mariners
- harbor pilots, marine industry, and management personnel
- emergency medical and emergency management professionals
- U.S. Coast Guard
- environmental protection agencies
- other community and business stakeholders

### Available Courses

The **Marine Awareness** course provides **4 hours** of training. This is an introductory course to common issues associated with marine responses, including jurisdiction, operating in the marine environment, terminology, types of ships and facilities, problems unique to marine responses, tactical considerations, as well as safety and incident management.

The **Marine Response Operations** course provides **16 hours** of training for those working in the marine environment trained at the HAZMAT operations level. This training includes port organization and resources, vessel familiarization, vessel construction, specialized resource considerations, initial response assignments, incident management, and size-up considerations.

The **Marine Response Technician** course provides **24 hours** of training for those working in the marine environment trained as HAZMAT technicians or in hazardous waste operations. It covers awareness- and operations-level skills and provides tactical response guidance for various types of vessel fires, special resource considerations, and other post-incident concerns and challenges. Detailed tactical techniques for a wide variety of scenarios are discussed. In addition, a classroom tabletop exercise is included.

The **Command Strategies and Tactics for Marine Emergencies (CSTME)** course involves **16 hours** of training. This course introduces participants to the common and often unexpected events that can occur in a port. The course engages participants in various problem-solving activities based on local jurisdictions, environmental conditions, and commercial marine operations. Training scenarios are designed to challenge trainees with realistic events that require them to play the role of key decision makers. Training scenarios will include events tailored to local client requirements, escalating real-time developments, decision analysis, and evaluation.

*CSTME training was developed as a cooperative effort between the Tri-State Maritime Safety Association and the Maine Maritime Academy. CSTME training has been approved by the U.S. Department of Homeland Security/Federal Emergency Management Agency's National Preparedness Directorate, National Training and Education Division, for inclusion within its State-Sponsored Course Catalog (ME-002-PROT).*

The **Harbor Incident Response Operations** is a **16-hour** training that provides first responders with the skills necessary to adapt their agency-specific training to a marine incident and familiarizes trainees with port organizations and resources, vessel layout, initial response assignments, incident management and size-up considerations, and safety and incident management.

## ABOUT NSU-KPCOM AND PROJECT SEAMIST

In 2010, Nova Southeastern University's Dr. Kiran C. Patel College of Osteopathic Medicine received a five-year Hazardous Waste Worker Training Program grant from the National Institute of Environmental Health Sciences (NIEHS). Through this grant, the South East Area Maritime Safety Training (SEAMIST) project was created to provide hazardous materials preparedness training to individuals working in the maritime industry. In 2015, the NIEHS renewed funding and included supplemental funding for the Hazardous Material Maritime Industry Response Training Safety Initiative (HazMIRTSI). This project addresses identified training gaps and facilitates development of collaborative relationships between workers in the maritime industry and the first responders who arrive on scene during hazardous materials incidents within this environment.



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