



Command Strategies and Tactics for Marine Emergencies (ME-002-PROT)

An emergency incident involving an ocean going vessel at sea, transiting a channel, canal, or at a marine terminal is a challenge to a community's emergency response agencies, port authorities, marine industry and other key stakeholders response capabilities and how well they have anticipated the threats and challenges that marine emergency incidents will present.

Command Strategies and Tactics for Marine Emergencies (CSTME) is a two-day course that introduces participants to the common and often unexpected events that can occur in a port. CSTME is a joint venture between the Maine Maritime Academy (MMA) and the Tri-state Maritime Safety Association (TMSA) and 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 under its State Sponsored Course Catalog (ME-002-PROT).

CSTME target audience is senior federal, state and local fire, EMS, law enforcement, emergency management, marine industry person

y, CSTME achieves its goals by providing crucial background information for operating in the Maritime Domain and then engaging students in problem solving activities based upon local maritime jurisdictional and environmental conditions, local commercial and marine operations. Scenarios are designed to challenge students with realistic events, requiring them to play the role of key decision makers. Such activities will encourage emerging leadership towards:

- Fostering a team approach to planning and consequence management
- Understanding roles within a unified command decision making structure
- Advantages of an all-hazards approach in dealing with marine emergencies
- Evaluating real-time information and intelligence
- Focusing on prevention activities that can reduce risk
- Incorporating proven best practices and methodologies
- Selecting response actions that will protect life and conserve property
- Planning exercises that test rather than fatigue players

Scenarios are constructed in consultation with clients in advance, in order to ensure that they meet local needs and training requirements. Scenarios should include:

- Events tailored to local client requirements
- Escalating real-time developments



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- Decision analysis and evaluation
- Staff instructors who can monitor progress

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INTRODUCTION:

- Introductions
- General time frames
- Course Manuals
- Lunch, breaks, amenities
- Exits

MODULE 1A: Marine Terminals, Facilities and Infrastructures

- Agencies
 - Partnerships
 - Commitment
 - Communications
- Local Assets
 - Law Enforcement
 - Firefighting
 - Other Response
- Local Infrastructures, Terminals and Facilities

MODULE 1B: Vessel Familiarization Marine Vessels, Terms and Nomenclature

- Marine Vessel Types
- Vessel Nomenclature
- Marine Infrastructure

MODULE 2: Vessel Emergency Plans, Documents and Systems

- Vessel Plans and Documentation
 - Introduction to vessel emergency plans
 - Vessel Fire and Safety Plans
 - Organization & Location
 - Other Safety Plans
 - Vessel Documentation
 - Dangerous Cargo Manifests
 - Cargo loading plans



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- Crew and Passenger Lists
- Vessel Stability Booklet/Plan
- Vessel fire detection systems
 - Heat
 - Flame
 - Smoke
 - Multi-Sensor
- Vessel Fire Suppression Systems
 - Firemain Systems
 - Foam Systems
 - CO2 Systems
 - Dry Chemical Systems
 - Dual Agent Systems
 - Halon Systems
 - Watermist Systems
 - Sprinkler Systems
 - Flooding Systems
 - Steam Systems

MODULE 3: Vessel Stability and Environmental Considerations

- Vessel Stability
 - Basics of Vessel Stability
 - Vessel Trim
 - Listing and Healing
 - Hogging and Sagging
 - Impacts on Response Operations
 - Controlling Water Flow
 - Dewatering
 - Vessel Based
 - External
- Environmental Protection and Pollution Control
 - Oil Pollution Act of 1990 (OPA '90)
 - Oil Spill Control Operations
 - Area Committees
 - Hazardous Material Operations
 - Local Incidents



MODULE 4: Jurisdictional Authority and Maritime Security Issues

- Maritime Security Issues
 - Ports
 - Vessels
 - Facilities
- Jurisdictional Authority
 - Federal
 - State
 - Local
 - Industry
- Roles and Responsibilities
 - Federal
 - State
 - Local
 - Maritime Industry
- Role of Emergency Responders
 - United States Coast Guard
 - Vessel Masters
 - Other agencies and stakeholders

MODULE 5: Command and Control Practices while Operating in the Maritime Domain

- Operating in the Marine Environment
 - Tides
 - Currents
 - Weather
 - Channels and Navigation
 - Unfamiliar Surroundings
 - Other Hazards
- Challenges for First Responders
 - Local Knowledge
- Hidden Hazards
 - Mooring Lines
 - Vessel Equipment
 - Confined Spaces
 - Hazardous Materials
 - Shipboard Supplies
 - Cargo



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- Terrorism
 - Historical Events, Lessons Learned
 - Maritime Terrorism
 - Prevention
 - Small Boat Risks
 - Anticipating Unknown Hazards

MODULE 6 Fire Control Strategies and Methodologies

- Vessel Crews
 - Master Responsibilities
 - Safety of passengers and crew
 - Fires and emergencies on board
 - Vessel firefighting systems - state of readiness
 - Crew Training and Capabilities
 - Ship Systems
 - Personal Protective Equipment
 - Ship Response Tactics
 - Detection
 - Response
 - External Notifications
- Land-based Firefighters
 - Initial Size-up
 - Establishing Command
 - Vessel name, facility or location name
 - Strategic Assessment
 - Strategies
 - Offensive vs. Defensive
 - Incident Priorities
 - Life Safety
 - Incident Stabilization/Protection of Property
 - Environmental Concerns
 - Establish Command Post
 - Interface with Vessel Master
 - Assign Command Staff (CFLOP)
 - Gather information and documentation
 - Key Tactical Objectives
 - Rescue, Evacuation, Containment, Extinguishment, Overhaul



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- Tactical Plans
 - Dockside
 - Anchored or Remote
 - Ventilation
 - Water Supply

MODULE 7: Strategic Decision Making within a Unified Command Structure

- Roles and Responsibilities
- The Incident Commander
- Transitioning to a Unified Command
 - Initial Unified Command
 - Long Term Unified Command
 - Unified Command Participants
- Command Posts

MODULE 8: Maritime Emergency Management

- Planning Response and Recovery
 - Incident Command System(s)
 - National Incident Management System (NIMS)
 - National Response Framework
 - Preparation
 - Response
 - Recovery
 - All Hazards Planning
- Marine Transportation System Recovery (MTSR)
- Funding the Response and Recovery
- Federal Emergency Management Agency (FEMA)
- Emergency Preparedness for Marine Terminals
 - Facility Security Plans
 - Internal and External Security
- Improving Communications
 - Interagency Communications

MODULE 9: AIR SUPPLY MANAGEMENT (Optional)

MODULE 10A: CRUISE VESSEL EMERGENCIES (Optional)

MODULE 10B: LNG VESSEL EMERGENCIES (Optional)