MARA A153: MARINE BASIC SAFETY TRAINING

Item	Value
Curriculum Committee Approval Date	10/21/2020
Top Code	095900 - Marine Technology
Units	4 Total Units
Hours	90 Total Hours (Lecture Hours 72; Lab Hours 18)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	Yes
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S), • Pass/No Pass (B)

Course Description

This course is the basic safety training (BST) as specified by the U.S. Coast Guard (USCG). Basic firefighting, personal survival, personal safety, social responsibility, and first aid in marine situations are covered in this hands-on program. Students with satisfactory level of completion will be qualified for First Aid and CPR cards and Certificates of Completion for STCW-95 compliance as well as a World Sailing Safety at Sea certificate. This is a required course for the Professional Mariner Program. An optional facility fee will be paid to a Fire Training Facility. PREREQUISITE: Student must be able to swim 50 yards and tread water for 10 minutes. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Students will learn how to interact with different nationalities and personalities in a shipboard environment.
2. Students will react to simulated emergencies for medical, fire, personal, and visual distress emergencies and explain correct responses
3. Students will demonstrate understanding of a ship's station bill.

Course Objectives

- 1. interaction with different nationalities and personalities in a shipboard environment.
- 2. react to simulated medical, fire, personal and vessel distress emergencies.
- 3. demonstrate understanding of a ships station bill.
- 4. Perform abandon ship duties in a simulated emergency.
- 5. identify safe health practices for living at sea.
- 6. demonstrate use of fire fighting equipment.
- 7. apply basic medical knowledge in a simulated medical emergency.

Lecture Content

Personal Safety and Social Responsibilities: Social and Work Environment on a vessel, Situational Awareness Communications: Onboard and Emergency Calls Safety: Personal Protective Equipment International National Measures Concerning Accident Prevention Occupational Health Marine Environment Pollution Hazardous Waste Procedures Security Emergency Procedures including Crowd Management Overboard Rescue Procedures Seasickness: Prevention and Care for Self and Passengers Health in Marine Environment, Exposure to Elements Swim and Tread Water Communications: Onboard Emergency calls using VHF, SSB, Satellite communications Safety of Vessel: Recognize Signs of Potential Emergencies Emergency Response Communication Recovery Procedures for grounding, flooding, holing, loss of steering Safe Fueling Procedures and Potential Hazards Elementary First Aid First Aid General Principles Body Structure and Functions Patient Assessment First Aid Response Heat and Cold Emergencies Moving a Patient Abandoning Ship Emergency Distress Signals including Radio, Flares Preparation before Emergency Survival Equipment, Survival Craft and Rescue Boats Personal Lifesaving Equipment Survival at Sea Helicopter Assistance Emergency Communication Equipment Basic Marine Firefighting Safety Criteria and Considerations Theory of Fire Firefighting Methods and Procedures Fire Detection Systems Self Contained Breathing Apparatus Search and Rescue Fire Prevention Taking the course two times enhances skills by supervised repetition and practice.

Lab Content

Swim and Tread Water Patient Assessment First Aid Response Heat and Cold Emergencies Moving a Patient Firefighting Methods and Procedures Fire Detection Systems Self Contained Breathing Apparatus Search and Rescue Communications and Emergency Calls

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- Lab (04)
- DE Live Online Lab (04S)

Instructional Techniques

Lecture Demonstration Practical application with student participation Discussion Video analysis

Reading Assignments

Assigned chapter reading from textbook, currentevents, periodicals, and Red Cross materials, 4 hrs/ week

Writing Assignments

Written emergency response procedures 2 hours total. Fatigue logs 4 hours total. Case studies 16 hours total.

Out-of-class Assignments

Discussions 4 hours total

Demonstration of Critical Thinking

Reactions and communication in regards to simulated fire, medical, holing, and / or abandon ship. Analysis of case studies of accidents. Analysis and discribed reaction to ethical dilemmas in the workplace.

Required Writing, Problem Solving, Skills Demonstration

Series of practical skills demonstrated as approved by the US Coast Guard for assessment (Abandon ship, fire fighting, medical emergencies). Written examples of stations bills, emergency communications, fatigue logs. Written summarizations of text and lessons learned.

Eligible Disciplines

Marine diving technology: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Marine diving technology: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Ripley, A. The Unthinkable - Who Survives When Disaster Strikes and Why, Latest ed. Three Rivers Press, 2009 Rationale: .

Manuals Resources

1. American Red Cross. American Red Cross First Aid/CPR/AED participants manual, American Red Cross , 05-01-2017

Other Resources

1. Selected handout materials to be provided and distributed by the instructor.