

COCONINO COMMUNITY COLLEGE

COURSE OUTLINE

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Status:

Date: October 6, 2011

A. Identification:

1. Subject Area: Fire Science
2. Course Number: FSC 137
3. Course Title: Hazardous Materials Awareness
4. Credit Hrs: .5
5. Catalog Description: This course presents the basic concepts and techniques related to hazardous materials first response. It is for those individuals who in the course of their normal duties may be first on the scene of an emergency involving hazardous material. First Responders at the awareness level are expected to recognize and identify a hazardous materials incident, protect themselves, call for trained personnel, and secure the area. **(Required for EMT 131. Fire Science students must take FSC 138).** Lecture .5.

B. Course Goals:

This course is designed to meet the requirements for awareness level training as outlined in OSHA 1910.120, (adopted by the State), and NFPA 472. Additionally this training will satisfy the minimum mandatory requirement for Emergency Medical Technician (EMS 131) training in Hazardous Materials Awareness but **does not** meet the additional requirements for admission to the Coconino Community College Firefighter I and II (FSC 180) or Paramedic (EMS 262) programs. (See FSC 138 – Hazardous Materials First Responder)

C. Course Outcomes:

1. Emergency responders at the awareness level shall be trained to meet all competencies of NFPA 472 Chapter 4. In addition, awareness level responders shall receive training to meet applicable United States Department of Transportation (DOT), Environmental Protection Agency (EPA), and Occupational Safety and Health Administration (OSHA) requirements.
2. Verification of the students' successful course completion will be determined by the administration of both pre and post course written examination.

D. Course Outcomes Assessment:

Will include:

1. Tests
2. Comprehensive Final Exam

E. Course Content:

1. Learn how to recognize the presence of hazardous materials, protect themselves, call for trained personnel, and secure the area.
2. Implement actions consistent with the local jurisdiction emergency response plan, the organization's standard operating procedures, and the current edition of the Emergency Response Guidebook by initiating and completing the following tasks:
 - Protective actions.
 - Notification process.

E. Course Outline:

The course will address the following knowledge, skills and competencies:

- Informal Detection Methods
- Facility and Transportation Markings
- DOT Hazard Classes and Divisions
- Container Shapes
- MSDSs and Shipping Papers
- Terrorism and Hazardous Materials
- Hazardous Materials Identification
- Emergency Response Guidebook
- CHEMTREC
- Scene Safety
- Protective Actions
- Notification Procedures