Course Description

Studies hazardous materials storage, standards, and applicable laws designed to protect the public and emergency personnel. Discusses specific methods and techniques used by the emergency worker in the abatement of hazardous materials incidents. Lecture 3 hours per week.

General Course Purpose

The purpose of this course is to provide the Emergency Medical Technology and Fire Science student with a solid foundation and understanding of the hazardous materials incident management system, examining the necessary issues needed to mitigate a hazmat incident.

Course Prerequisites/Co-requisites

None.

Course Objectives

After successful completion of this course the student will have an in depth understanding of a hazardous materials incident and all of the components which are needed to successfully mitigate the situation. Specifically, the student will be able to:

- Explain the following:
  - Hazardous materials
  - Hazardous substances
  - Extremely hazardous substances
  - Hazardous chemicals
  - Hazardous wastes
  - Dangerous good
- Explain the legislative, regulatory and voluntary consensus standards that impact HAZMAT emergency planning and response operations
- List and describe the components of the Hazardous Materials Management system for managing the hazardous materials problem with a facility or community
- Describe basic toxicological principles
- Identify the key organizational elements of the Incident Command System and of the HAZMAT group within the ICS
- Describe the procedures for scene control at an incident
- Understand the principles of recognition, identification, classification and verification as they apply to Hazardous Materials Emergencies
- List and describe the seven basic methods of identifying hazardous materials.
- Understand the concept of hazard assessment and risk evaluation.
- Be able to select the appropriate personal protective clothing for an incident

Major Topics to be Included

- Hazmat Laws, Standards, and Regulations
- Health and Safety at a Hazmat Incident
- Role of the Incident Commander and relation to the other players in the Incident Management System
- Gathering Information and Identifying the Problem at a Hazmat Incident
- Hazard and Risk Evaluation of Potential Course of Harm
- Implementation, Evaluation and Review of Strategic Goals and Tactical Response Objectives
- Personal Protective Equipment and Clothing
- Decontamination
- Terminating the Incident (Critique, Debriefing, Post-Incident Analysis)