

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: EMS 210

Credits: 1

Course Title: EMS Operations

Course Description: Focuses on matters related to Emergency Medical Services (EMS) operations, incident and scene safety and awareness, triage, multiple and mass casualty incident operations and medical incident management (command and control of EMS incidents). Prerequisites: EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142. Laboratory 2 hours per week.

General Course Purpose: The purpose of this course is to prepare the student in the theory and application of the following: medical incident management, multiple and mass casualty incident management, aeromedical operations, rescue awareness and operations, hazardous materials incident awareness, violent, active shooter and crime scene awareness and traffic incident management and to provide emergency medical services providers with a foundational and operational knowledge of the roles and responsibilities to ensure patient, public, and personnel safety. This course develops an awareness of principles, techniques and procedures necessary to safely and effectively manage an emergency scene. This course is required for students desiring to test for National Registry Paramedic certification.

Course Prerequisites and Co-requisites:

Prerequisites: EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142

Student Learning Outcomes:

Upon completion of the course, the student will be able to

- a. Describe the components of ground and air operations;
- b. Explain the principles of incident management;
- c. Differentiate types of triage methods used in EMS operations;
- d. Identify types of specialized rescue;
- e. Classify types of hazardous materials;
- f. Describe agents used in terrorism incidents;
- g. Classify types of disasters and appropriate response; and
- h. Discuss procedures for responding to crime scenes.

Major Topics to Be Included:

- a. Ground and Air Operations
 - Principles of safely operating a ground ambulance
 - Operating on the highway
 - Traffic incident management
 - Air medical

- b. Incident Management
 - Incident command system (ICS)
 - Medical incident command
 - Mass casualty incident (MCI)
 - Triage systems
 - Critical incident stress management

- c. Specialized Rescue Operations
 - Steps of specialized rescue
 - Components of vehicle extrication
 - Types of specialized rescue

- d. Hazardous Materials
 - OSHA HAZWOPER regulation
 - Classification systems
 - Identifying hazardous materials
 - Operations at a hazardous materials scene

- e. Terrorism
 - Terrorism response
 - Weapons of mass destruction
 - Chemical agents
 - Biologic agents
 - Radiological events

- f. Disaster Response
 - Man-made disasters
 - Natural disasters
 - Violent and civil unrest incidents

- g. Crime Scene Awareness
 - Responding to crime scenes
 - Methods of approaching a scene
 - Clandestine drug labs
 - Mass shootings
 - Preservation of evidence

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