

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

**Course Prefix and Number:** FST 120

**Credits:** 3

**Course Title:** Occupational Safety and Health for the Fire Service

**Course Description (including lecture hours, lab hours, total contacts)**

Introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue. Upon completion of this course, students should be able to establish and manage a safety program in an emergency service organization. Lecture 3 hours per week.

**Course Prerequisites/Corequisites** (*Entry-level competencies required for enrollment*)

None

**Course Objectives** (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

1. Describe the history of health and safety programs.
2. Identify occupational health safety programs in industry today.
3. Identify occupational health and safety programs for the emergency services.
4. Describe the distinction between standards and regulations.
5. Identify federal regulations that impact on health and safety programs.
6. Identify the standards that impact on occupational health and safety.
7. Identify the concepts of risk identification and risk evaluation.
8. Describe the considerations for safety in fire stations and emergency response vehicles.
9. Describe the components of an effective response safety plan.
10. Describe the components of the pre-incident planning process.
11. Describe the considerations for safety while training.
12. Define the value of personal protective equipment.
13. Describe the components of accountability system in emergency operations.
14. Define incident priorities and how they relate to health and safety.
15. Describe the relationship of incident management as it related to health and safety.
16. Describe the methods of controlling hazards associated with responding to EMS, hazmat, and technical rescue incidents.
17. Explain the need for and the process used for post-incident analysis.
18. Describe the components and value of critical incident management programs.

**Major Topics to be Included**

1. History of health and safety programs.
2. Occupational health safety programs in industry today.
3. Occupational health and safety programs for the emergency services.
4. Distinction between standards and regulations.
5. Federal regulations that impact on health and safety programs.
6. Standards that impact on occupational health and safety.

7. Concepts of risk identification and risk evaluation.
8. Considerations for safety in fire stations and emergency response vehicles.
9. Components of an effective response safety plan.
10. Components of the pre-incident planning process.
11. Considerations for safety while training.
12. Value of personal protective equipment.
13. Components of accountability system in emergency operations.
14. Incident priorities and how they relate to health and safety.
15. Relationship of incident management as it related to health and safety.
16. Methods of controlling hazards associated with responding to EMS, hazmat, and technical rescue incidents.
17. Need for and the process used for post-incident analysis.

**Effective Date of Course Content Summary (Month, Date Year):** September 11, 2008