

Course Objectives/Course Outline

Spokane Community College

Course Title: Intermediate Fire Science

Prefix and Course Number: FS 221

Course Learning Outcomes:

By the end of the course, a student should be able to:

- Start the process of Fire origin and cause determination
- Describe the utilization of tactical ventilation
- Control loss through proper salvage and overhaul operations
- Demonstrate the use of portable fire extinguishers
- Set up scene lighting
- Have a basic knowledge of vehicle stabilization and extrication

Course Outline

- I. Firefighter Safety and Health Review
- II. Fire Service History Review
- III. Loss control
 - A. Philosophy of loss Control
 - B. Pre-incident planning for loss control
 - C. Salvage
 - D. Overhaul
- IV. Tactical ventilation
 - A. Reasons for tactical ventilation
 - B. Considerations affecting the decision to ventilate
 - C. Types of tactical ventilation
 - D. Effects of building systems on tactical ventilation
- V. Water Supply
 - A. Water supply system components
 - B. Fire hydrants
 - C. Alternative water supplies
 - D. Rural water supply operations
- VI. Fire origin and cause determination
 - A. Area of origin
 - B. Fire cause determination
 - C. Signs of arson
 - D. Preserving evidence
- VII. Portable fire extinguishers
 - A. Classifications of portable fire extinguishers
 - B. Types of portable fire extinguishers
 - C. Portable fire extinguisher rating system
 - D. Selecting and using portable fire extinguishers

- E. Inspection, care and maintenance
- VIII. Fire protection systems
- A. Fire alarm systems
 - B. Alarm initiating devices
 - C. Automatic sprinkler systems
 - D. Standpipe and hose systems
 - E. Smoke management systems