

EASTERN ARIZONA COLLEGE

Fire Apparatus and Equipment

Course Design
2016-2017

Course Information

Division Allied Health
Course Number FSC 120
Title Fire Apparatus and Equipment
Credits 3
Developed by Chuck Jacobs
Lecture/Lab Ratio 3 Lecture/0 Lab

Transfer Status

| ASU | NAU | UA |
|------------------|----------|------------------|
| Non Transferable | Elective | Non Transferable |

Activity Course No
CIP Code 43.0203
Assessment Mode Pre/Post-Test (10 Questions/10 Points)
Semester Taught Upon Request
GE Category None
Separate Lab No
Awareness Course No
Intensive Writing Course No

Prerequisites

None

Educational Value

This course is designed for fire department personnel and students interested in understanding the principles of automotive apparatus and fire equipment. To familiarize the firefighter with a variety of mechanical, automotive, and hand-held firefighting tools and vehicles.

Description

This course will familiarize the student with automotive apparatus (pumpers, aerial ladders, lift platforms, hose wagons, transports, and utility vehicles), water towers, heavy auxiliary mechanical equipment and appliances, generators, compressors, rescue and forcible entry tools, and cutting torches.

Supplies

None

Competencies and Performance Standards

1. Learn about the evolution and development of firefighting equipment through its current technology.

Learning objectives

What you will learn as you master the competency:

- a. Discuss the history of firefighting equipment.
- b. Describe the circumstances that help improve fire equipment and apparatus.

Performance Standards

Competence will be demonstrated:

- o through successful completion of written test

Criteria - Performance will be satisfactory when:

- o when learner discusses the history of fire equipment
- o when learner describes the circumstances that helped improve fire equipment and apparatus

2. Define type and use of fire apparatus, equipment, and how it is constructed.

Learning objectives

What you will learn as you master the competency:

- a. Describe how fire apparatuses are designed to assist in effective firefighting.
- b. Describe how to operate fire apparatus.
- c. Discuss the proper maintenance and repair of fire apparatus.

Performance Standards

Competence will be demonstrated:

- o through successful completion of written test

Criteria - Performance will be satisfactory when:

- o when learner describes how fire apparatuses are designed to assist in effective firefighting
- o when learner describes how to operate fire apparatus
- o when learner discusses the proper maintenance and repair of fire apparatus

3. Describe the procedures, techniques, and skills needed to operate firefighting equipment.

Learning objectives

What you will learn as you master the competency:

- a. Describe how pumps and pump accessories should be operated and maintained.
- b. Describe proper pumping procedures.
- c. Describe how to troubleshoot firefighting equipment.
- d. Discuss how to operate aerial ladders and platforms.

Performance Standards

Competence will be demonstrated:

- o through successful completion of written test

Criteria - Performance will be satisfactory when:

- o when learner describes how pumps and pump accessories should be operated and maintained

- o when learner describes proper pumping procedures
- o when learner describes how to troubleshoot firefighting equipment
- o when learner discusses how to operate aerial ladders and platforms

4. Discuss how to maintain firefighting equipment.

Learning objectives

What you will learn as you master the competency:

- a. Discuss the importance of preventive maintenance.
- b. Describe how to maintain firefighting equipment and apparatus in the station or the field.
- c. Describe routine care of firefighting equipment.
- d. Demonstrate basic maintenance skills in simulated equipment malfunctions.

Performance Standards

Competence will be demonstrated:

- o through successful completion of written test

Criteria - Performance will be satisfactory when:

- o when learner discusses the importance of preventive maintenance
- o when learner describes how to maintain firefighting equipment and apparatus in the station or the field
- o when learner describes routine care of firefighting equipment
- o when learner demonstrates basic maintenance skills in simulated equipment malfunctions

5. Develop competence in driving, operating, and maintaining firefighting equipment.

Learning objectives

What you will learn as you master the competency:

- a. Demonstrate proper driving techniques and procedures.
- b. Demonstrate competence in performing routine maintenance in a simulated on-the-scene operation.
- c. Demonstrate competence in operating firefighting equipment in a simulated on-the-scene operation.

Performance Standards

Competence will be demonstrated:

- o through successful completion of a simulated firefighting situation

Criteria - Performance will be satisfactory when:

- o when learner demonstrates proper driving techniques and procedures
- o when learner demonstrates competence in performing routine maintenance in a simulated on-the scene operation
- o when learner demonstrates competence in operating firefighting equipment in a simulated on-the scene operation

Types of Instruction

Classroom presentation

Grading Information

Grading Rationale

Grades will be based on a simulated exercise, class participation, and written test. The post-test will count as 10% of the final grade.

Grading Scale

| | |
|---|---------|
| A | 90-100% |
| B | 80-89% |
| C | 70-79% |
| D | 60-69% |
| F | 0-59% |