

EASTERN ARIZONA COLLEGE
Fire Apparatus and Equipment

Course Design
2010-2011

Course Information

Division Allied Health
Course Number FSC 120
Title Fire Apparatus and Equipment
Credits 3
Developed by Patricia A. Burke
Lecture/Lab Ratio 3 Lecture/0 Lab

Transfer Status

ASU	NAU	UA
Pending Evaluation	Pending Evaluation	Pending Evaluation

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 fire fighting 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. Awareness of evolution and development of firefighting equipment to current technology.

Learning objectives

What you will learn as you master the competency:

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

Performance Standards

You will demonstrate your competence:

- When learner discusses the history of fire equipment
- When learner will describe the circumstances that helped improve fire equipment and apparatus

Your performance will be successful when:

- Learner completes written test

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 apparatus 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

You will demonstrate your competence:

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

Your performance will be successful when:

- Learner completes written test

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

You will demonstrate your competence:

- When learner describes how pumps and pump accessories should be operated and maintained
- When learner describes proper pumping procedures
- When learner describes how to troubleshoot firefighting equipment

- When learner discusses how to operate aerial ladders and platforms

Your performance will be successful when:

- Learner completes written test

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

You will demonstrate your competence:

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

Your performance will be successful when:

- Learner completes written test

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

You will demonstrate your competence:

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

Your performance will be successful when:

- Learner is successful in a simulated firefighting situation

Types of Instruction

Classroom presentation

Grading Information

Grading Rationale

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

Grading Scale

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