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#### **Course Outline for FST 51W**

#### FIRE EQUIPMENT OPERATIONS

Effective: Spring 2019

#### I. CATALOG DESCRIPTION:

FST 51W — FIRE EQUIPMENT OPERATIONS — 0.50 units

Application of Fire Equipment and tools for basic emergency service operations; use of PPE while responding to and operating at an emergency incident; traffic and scene control device deployment; communication device operations; equipment inspection, maintenance, transportation and set up; property conservation equipment application; thermal imaging camera operations for search; suppression and overhaul support

0.50 Units Lab

<u>Prerequisite</u> FST 51 - Fire Service Operations with a minimum grade of C (May be taken concurrently) Instructor approval of equitable course work

#### **Grading Methods:**

Pass/No Pass

#### **Discipline:**

Fire Technology

MIN Lab Hours: 27.00 **Total Hours:** 27.00

- II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1
- III. PREREQUISITE AND/OR ADVISORY SKILLS:

#### Before entering the course a student should be able to:

A. FST51

#### IV. MEASURABLE OBJECTIVES:

#### Upon completion of this course, the student should be able to:

- A. Locate specific information within a standard of the National Fire Protection Association (NFPA)
- B. Use Don and Doff personal protective equipment and prepare for reuse
- Mount and dismount fire apparatus, properly using safety equipment provided Set up work areas including the proper use of traffic control devices
- E. Demonstrate telephone communications for a business call and a report of an emergency from the public
- Demonstrate two-way radio communication for both routine traffic and emergency traffic
- Operate a mechanical positive pressure ventilation fan
- H. Operate an electric generator and set up lighting equipment to illuminate a scene
- Clean, inspect and maintain tools and equipment for later use
- Shut-off residential gas, electric and water utilities on simulation props
- K. Apply sprinkler wedges and tongs to a simulated activated sprinkler head L. Clean, inspect and repair fire department salvage covers
- M. Locate hidden fires using a thermal imaging camera

### V. CONTENT:

- A. Fire Service Orientation
  - Departmental Documents
- Standard Operating Guidelines/Procedures (SOG/SOP)
   National Fire Protection Association (NFPA) Standards.
   Structural Personal Protective Equipment (PPE)
- Structural Personal Protective Equipment
   Don PPE
   2. Doff PPE and prepare for reuse
   Responding on Apparatus
   Response to Emergency Scene
- - 2. Mount and dismount procedures

- D. Operating at an emergency scene
  - 1. Traffic and scene control devices
  - 2. Safety Vests
  - 3. Protected Work Area
- E. Operating phone in in non-emergent and emergent situations
  - Business telephone call
     Emergency call
- S. Enlergency can
   Initiating a response
   Record and relay information
   Operating Fire Department Radio
   Routine traffic

- 1. Routine traffic
  2. Emergency traffic
  3. Radio etiquette and nomenclature
  G. Hand and Power Tools
  1. Transport hand and power tools
  2. Operate mechanical fan
  H. Portable Electric and Lighting Equipment
- п. Ротаріе Ејестіс and Lighting Equipment
  1. Light a scene
  2. Deploy cords, connectors and ground-fault interrupter devices
  I. Maintenance of Equipment
  1. Inspecting equipment
  2. Cleaning and maintaining equipment
- J. Utility Control
  - Secure electrical and gas sources
     Simulate water shut-off
- K. Property Conservation
  - Sprinkler system water flow control
     Inspect salvage cover for damage

  - 3. Hidden fire search with Thermal Imaging Camera (TIC)

# VI. METHODS OF INSTRUCTION: A. Observation and Demonstration B. Hands on Activities

- C. Simulations -

#### VII. TYPICAL ASSIGNMENTS:

- A. Operate a fire department radio to transmit information
   B. Control the operation of an activated sprinkler head using wedges and or tongs and other commercial sprinkler stop devices
   C. Set up traffic control devices to protect a scene from oncoming traffic

#### VIII. EVALUATION:

## Methods/Frequency

- A. Class Participation
- B. Final Performance
- C. Other
- 1. Skills performance examination

#### IX. TYPICAL TEXTS:

- 1. Fundamentals of Fire Fighter Skills Evidence-Based Practices. 3rd ed., Jones and Bartlett Learning, 2017. 2. Essentials of Firefighting and Fire Department Operations. 6th ed., Brady-Pearson, 2015.

### X. OTHER MATERIALS REQUIRED OF STUDENTS:

A. LPC Fire Service Technology Uniform