

Sample Lesson Plan
Construction Industry Training Program
Fire Protection and Prevention

Introduction

The employer shall be responsible for the development of a fire protection program to be followed throughout all phases of the construction and demolition work, and shall provide for the firefighting equipment as specified in this subpart. As fire hazards occur, there shall be no delay in providing the necessary equipment. Access to all available firefighting equipment shall be maintained at all times. All firefighting equipment, provided by the employer, shall be conspicuously located. All firefighting equipment shall be periodically inspected and maintained in operating condition. Defective equipment shall be immediately replaced. As warranted by the project, the employer shall provide a trained and equipped firefighting organization (Fire Brigade) to assure adequate protection to life.

Instructor's Activities

- PowerPoint presentation
- Discuss 29 CFR §1926.150-§1926.155
- Participant feedback

Learning Objectives and Outcomes

I. Fire protection program

- A. Water supply
- B. One fire extinguisher rated at least 2A for each 3000 square feet
- C. One fire extinguisher rated at least 10B within 50 feet of more than 5 gallons of flammable or combustible liquids or 5 pounds of flammable gas
- D. Fire Alarms with reporting instructions posted at phones and employee entrances
- E. Fire walls and fire doors will be given construction priority

II. Fire prevention

- A. All electrical wiring and equipment for light, heat, or power purposes will be installed in compliance with the requirements of Subpart K.
- B. No temporary building will adversely affect any means of exit.
- C. Temporary buildings, when located within another building or structure, will be either noncombustible construction or of combustible construction having a fire resistance of not less than 1 hour.
- D. Combustible materials will be piled no higher than 20 feet.
- E. In open yard storage, portable fire extinguishers, rated not less than 2A, will be placed so that maximum travel distance to the nearest unit shall not exceed 100 feet.
- F. In indoor storage materials stored may not obstruct any means of exit. Clearance will be maintained around lights and heating units to prevent ignition of combustible materials.

III. Flammable and Combustible Liquids

- A. No more than 25 gallons of flammable or combustible liquids shall be stored in a room outside of an approved storage cabinet.
- B. Not more than 60 gallons of flammable or 120 gallons of combustible liquids may be stored in any one storage cabinet.
- C. At least one portable fire extinguisher, having a rating of not less than 20-B units, shall be located outside of, but not more than 10 feet from, the door opening into any room used for storage of more than 60 gallons of flammable or combustible liquids.
- D. At least one portable fire extinguisher having a rating of not less than 20-B units shall be located not less than 25 feet, nor more than 75 feet, from any flammable liquid storage area located outside.

- E. At least one portable fire extinguisher having a rating of not less than 20-B:C units shall be provided on all tank trucks or other vehicles used for transporting and/or dispensing flammable or combustible liquids.

IV. LP gas

- A. Every container and every vaporizer shall be provided with one or more approved safety relief valves or devices.
- B. Container safety relief devices and regulator relief vents will be located not less than 5 feet in any direction from air openings into sealed combustion system appliances or mechanical ventilation air intakes.
- C. Filling of fuel containers for trucks or motor vehicles from bulk storage containers will be performed not less than 10 feet from the nearest masonry-walled building, or not less than 25 feet from the nearest building or other construction and, in any event, not less than 25 feet from any building opening.

V. Temporary heating devices

- A. Fresh air shall be supplied in sufficient quantities to maintain the health and safety of workers.
- B. Temporary heating devices will be installed to provide proper clearances to combustible material.
- C. Flammable liquid-fired heaters shall be equipped with a primary safety control to stop the flow of fuel in the event of flame failure.

References

OSHA Standard

29 CFR Part 1926 subpart F

http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10610

1926 Subpart F Overview OCCUPATIONAL SAFETY AND HEALTH1926 Subpart F Overview *for* Subpart F Fire Protection and Prevention F-1 What are the serious most frequently cited fire hazard violations in des...

http://www.osha.gov/Publications/Const_Res_Man/1926sub-f-overview.html

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