

Fire Instructor, Pre-Course Assignment 5

Text: *Fire and Emergency Services Instructor*, Seventh Edition, Fire Protection Publications, Stillwater, OK, 2006. Chapter 5, “Instructional Facilities and Props,” pp 100–116.

NFPA 1041 (2007) JPRs addressed

- 4.3.2 (B)
- 5.2.1
- 5.2.2
- 6.2.1
- 6.5.4

Objectives

After completing Pre-Course Assignment 5, you should be able to

- Define the following:
 - Permanent facility
 - Fixed facility
 - Mobile unit
 - Acquired structure
 - Portable training prop
- Identify the infrastructure requirements for a permanent instructional facility.
- List and describe the general site requirements of a permanent instructional facility.
- List the benefits of a mobile training facility.
- List and describe the appropriate training props for each of the following training areas:
 - Rescue/extrication
 - Flammable/combustible liquids and hazardous materials
 - Live-fire
- List common portable training props and identify the purpose of each.
- Explain the six primary issues associated with planning for a live fire training evolution in an acquired structure.
- Define the instructor’s responsibilities in preparing for a live fire training evolution in an acquired structure.
- List the requirements that an instructor must followed during a live fire training evolution in an acquired structure regarding
 - Fuel usage.
 - Water supply.

Reading

Chapter 5, “Instructional Facilities and Props,” pp 100–116

After reading Chapter 5, you should be able to answer the following questions:

1. Define permanent facility, fixed facility, mobile unit, acquired structure, and portable training prop?
2. What is the minimum infrastructure necessary to support an instructional facility, props, and training evolutions?
3. What are the items that a training facility should have to support respiratory protection equipment?
4. What constitutes an appropriate communications system during a training function?
5. What separation and removal methods should be part of a water-decontamination system?
6. What are the common structures/areas of a permanent facility?
7. What are the benefits of a mobile training facility?
8. What caution should one follow when using a live-fire or fire behavior simulator?
9. Identify the appropriate training props for the following training areas:
 - Rescue/extrication
 - Flammable/combustible liquids and hazardous materials
 - Live-fire
10. What are the safety requirements that instructors and training administrators must meet when using an acquired structure?
11. How do environmental conditions affect the use of an acquired structure in live-fire training? How do structural conditions affect the use of an acquired structure in live-fire training?
12. What other training opportunities may an acquired structure provide if it cannot be used for live-fire training?
13. Outline the responsibilities an instructor must fulfill before a live-fire training event at an acquired structure.
14. What requirements regarding fuel used at an acquired structure live-fire burn must an instructor adhere to?
15. What requirements regarding water supply used at an acquired structure live-fire burn must an instructor adhere to?

Reflecting

Provide a written answer to each of the following questions. Continue answers on a second sheet, if necessary.

Describe the training facility of your organization or of the training facility you attend most frequently in terms of structures and infrastructure. What are the strengths of the facility? What improvements in the facility would you recommend?

To what degree is the training facility you described in the previous question capable of training fire fighters in the following areas? Explain.

- Rescue/extrication
- Flammable/combustible liquids and hazardous materials
- Live-fire

If the training facility were to upgrade its instructional capability to support an additional type of training, what type of training would you recommend? What changes/additions to the facility would this type of training require?

Read each statement below. Choose the number, word or phrase from the parenthesis that correctly completes each statement. Write your answer choice in the blank to the right of the number of each statement.

- _____ 1. Flammable or combustible liquids _____ (may/may not) be used in live-fire training.
- _____ 2. NFPA _____ (1402/1403/1142) provides guidelines to be followed for the construction of live-fire buildings and live-fire simulators.
- _____ 3. Instructors should not alter a commercial fire behavior simulator without the permission of the _____ (manufacturer/training administrator).
- _____ 4. The volume and water pressure that constitute an adequate water supply is addressed in NFPA _____ (1402/1403/1142).
- _____ 5. A vehicle used in extrication training is a _____ (permanent/portable) training prop.
- _____ 6. Acquired structures must meet the requirements set forth in NFPA _____ (1402/1403/1142) to be used in live-fire training.
- _____ 7. To address the training needs of organizations over a large geographic area, _____ (mobile/permanent) training facilities are the most economical.
- _____ 8. Simulated aircraft structures, such as fuselage sections, that are permanently fixed to a containment pit are used for _____ (extrication/fire-suppression) training.
- _____ 9. Environmental laws may prohibit the use of a structure in live-fire training because of the building's _____ (history/location).
- _____ 10. Before a live-burn training at an acquired structure, the instructor must _____ obtain (a court order for the burning/written permission from the owner) of the structure.

Fire Inspector, Pre-Course Assignment 4 Answer Key

<u>Item</u>	<u>Answer</u>	<u>Text page #</u>
1.	may not	p 115
2.	1402	p 111
3.	manufacturer	pp 107–108
4.	1142	p 102
5.	portable	p 109
6.	1403	p 113
7.	mobile	p 106
8.	fire-suppression	p 110
9.	location	p 114
10.	written permission from the owner	p 114