

INSTRUCTOR GUIDE

RINGS OF FIRE

Tire Fire Prevention and Suppression

Lesson Plan 08 PREPLANNING

TOPIC: Pre-Fire Planning Tire Storage Areas

LEVEL: I

TIME: 30 Minutes

BEHAVIORIAL OBJECTIVE:

Condition: Complete evaluation with 70% accuracy

Behavior: The student will . . .

1. Develop a site specific pre-fire plan of an outdoor tire facility

Standard: According to the referenced text

REFERENCES: Slaughter, Rodney. "RINGS OF FIRE: Tire Fire Prevention and Suppression" California State Fire Marshal, June 2004.

MATERIALS NEEDED: PC projector, projection screen, VCR, multimedia slide show on CD-ROM, speakers.

PREPARATION: Preplanning is essential in effective tire fire management. Pre-incident plans are developed to identify the special considerations and hazards of a particular site or property so that responding units will know what to expect and how to proceed during initial operations. Pre-plans must accommodate the agency's standard guidelines and specify exactly how those guidelines are to be applied should a fire break out at a given location. All outdoor tire and rubber products storage facilities should be considered high-risk storage sites and pre-planned accordingly. Included within the pre-incident plan is information and resource material useful to the incident commander. In the case of a tire fire, these resources would include maps of the area, information on the hydrographic conditions of the soil, water supply contingency plans, emergency contacts and a variety of other important considerations.

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PRESENTATION	APPLICATION
<p>I. Objective- Develop a site specific pre-fire plan of an outdoor tire facility</p> <p>II. Pre-Incident Plan</p> <ul style="list-style-type: none">A. Included within the pre-incident plan is information and resource material useful to the incident commanderB. Anticipated assignments for mutual aid companies and organizational charts specifying the anticipated control sectorsC. The means of maintaining fire ground and incident management strategies (Incident Command System), should be anticipatedD. The following common elements of tire fires that need to be considered and included in the pre-incident plans includes:<ul style="list-style-type: none">1. The anticipated establishment of a functional incident management system, to include command and control of all responders and workers.2. The early recognition of tire fires as potential hazardous materials (HAZMAT) incidents, with considerations given to treating them as such.3. Information regarding the site's location, layout, size and composition. Also information regarding access and egress routes, the physical infrastructure of the roads and other "access" considerations.	<p>From the Main Menu click on the Response button. In the Response sub-menu click on the Preplanning button.</p> <p>Preplanning Objective.</p> <p>Preplanning Slide 02</p>

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PRESENTATION	APPLICATION
<p>C. Topographical, aerial and soil composition maps should be obtained and updated to show hydrants and water supply sources, accesses, interior lanes or passages, and fuel load configurations.</p> <p>D. Photograph of Royster- facility had no water supply!</p> <p>E. Schools, homes, and transportation routes near the site should be identified as "high risk" exposures and considered in pre-incident planning should evacuation or pollution control become necessary.</p> <p>F. The location of any utilities on or near the site should be identified so responders can quickly shut off power to electrical or gas lines and prevent the run-off of contaminated water into storm drains or plumbing systems</p> <p>G. The condition of roads and access routes should be considered to avoid a common problem of first-arriving units becoming stuck in mud or unable to exit a narrow access.</p> <p>H. Tire Pile Configuration</p> <ol style="list-style-type: none">1. The composition of the tire pile should be considered since important differences exist in developing suppression strategies.	<p>Preplanning Slide 05 Topography</p> <p>Preplanning Slide 06 Water Supply</p> <p>Preplanning Slide 07</p> <p>Preplanning Slide 08</p>

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<p>2. Shredded or "chip" tire piles present different challenges than whole tires, as would the existence of plastics, metals, refuse or hazardous chemicals/waste.</p> <p>3. Additionally, the age of the pile and the local climate may affect the amount of rodent and insect infestation of the particular site.</p> <p>4. Older tires maybe checked and cracked from exposure to the weather making them easier to ignite</p> <p>5. Photograph of a portion of Westely Tire Pile, note all tires are off-rim and there appears to be no other material salvaged with the tires</p> <p>IV. Identification of State and Local Emergency Response Teams</p> <p>A. State and Local Emergency Response Teams should be a component to pre-planning</p> <p>B. In the event of a tire fire, local fire fighting efforts for communities may not have sufficient resources to handle such an emergency</p> <p>C. Pre-incident plans should contain up-to-date emergency contacts for all local, state, and federal agencies or organizations with expertise or responsibility in management of environmental disasters</p>	<p>Preplanning Slide 09 Tire Pile</p> <p>Rings of Fire Slide 10</p>

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<p>D. The lists should include phone numbers, facsimile numbers, addresses, and radio frequencies, if applicable.</p> <p>E. Outside agencies should participate in, or at least become familiar with, the pre-incident plans.</p> <p>F. Examples of concerned agencies would be:</p> <ol style="list-style-type: none">1. State and local Police;2. Public Works agencies;3. State Department of Emergency Management;4. Regional offices of the Federal Emergency Management Agency (FEMA);5. Regional, State or Federal Environmental Protection Agency (EPA);6. State Division of Natural Resources or State Forestry Agency;7. State Fire Marshals office; and8. Finance, Purchasing and Budget agencies. <p>G. The pre-incident plans should assign the various government agencies to appropriate sections in the command system.</p> <p>V. Identification of Local and or Regional Response Contractors</p> <p>A. Identification of local and or regional response contractors is a necessary component of pre-planning for a tire fire response.</p> <p>B. A current list of contractors should be maintained at all times.</p> <p>C. Having contractors identified and coordinating their use in simulated drills with the local fire authority will provide the necessary training to manage the emergency and make informed decisions.</p>	<p>Preplanning Slide 11 Heavy Equipment</p>

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	<p data-bbox="1123 499 1458 642">Video - Slide 14: Show the third section of four sections of the “Rings of Fire” video</p> <p data-bbox="1123 758 1451 863">Instructors Note: Give summary and then read evaluation questions</p> <p data-bbox="1123 978 1393 1045">Preplanning Slide 15 Questions</p>

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SUMMARY:

A clear, well thought out pre-fire plan is very important in dealing with outdoor tire storage. The guidelines in this section will help you make these kinds of preparations. In the event of a fire, the advance work you did on this preplan will help the incident commander manage valuable resources more effectively.

EVALUATION:

1. What are your primary concerns for a tire pile fire?

Answer: access, water supply, separation distances between piles, environmental impact, and the number of resources it will tie up.

2. Should those concerns be part of the problem?

Answer: Yes! All considerations should be made in the preplan

3. Why is it important to know the age and exposure of a tire pile?

Answer: Older tires tend to crack under the sun making them easier to ignite

ASSIGNMENT:

None