

COURSE: LCES WORKSHOP

UNIT: UNIT 3 - PRESCRIBED FIRE

SUGGESTED TIME: TWO HOURS

TRAINING AIDS: HANDOUTS
SLIDES
“SCHOOLBOOK ANSWERS”

OBJECTIVES: Students working in groups will enhance their knowledge of LCES as it applies to situations which could be encountered a Prescribed Fire.

Written By: Phil Range and Al Carriere

OUTLINE	AIDS & CUES
<p>I. INTRODUCTION</p> <p>Note: This exercise can be viewed from the Burn Boss, Ignition Specialist, Squad Boss perspective, or from the stand point of a crew member on one of the ignition crews. It is suggested that the exercise be divided into three sections and that the instructor hand out the next section after the students have completed the previous one.</p> <p>II. FORMAT</p> <p>A. Slides set the general overview and familiarize students with the fuel type, terrain, and equipment.</p> <p>B. Inputs and map updates are provided by viewgraph.</p>	

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<p>C. Inputs will be provided in sequential order. Each input must receive an appropriate response or will cause problems later. This will not be an extensive or complicated process. If the group did not respond, one close call or worse will develop.</p> <p>D. Each group will note their concerns, actions and directions on the form provided. The instructor(s) will determine when subsequent inputs are appropriate.</p>	<p>03E-01-LCES-HO 03E-</p>
<p>II. PRESCRIBED FIRE SCENARIO</p> <p>A. SITUATION #1 You will be working with an adjoining unit on a prescribed fire tomorrow. There will be a 10 a.m. briefing tomorrow at the site. What initial thoughts or concerns would you have? What information would you expect to receive at the briefing related to LCES?</p> <p><i>SAFETY: Lookouts and their locations, escape routes, method of communication between crew members and with the firing boss, <u>Safety Zones</u>.</i></p> <p><i>AREA: Terrain features, height of the vegetation, potential distance to <u>Safety Zones</u>.</i></p> <p><i>PERSONNEL: Qualifications and experience of crew members, adjoining squad leaders, and firing boss.</i></p> <p><i>OPERATIONAL ACTIVITIES: Hand firing, refueling, communications, visibility, visual contact, timing of ignition, visual contact.</i></p>	

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<p>B. SITUATION #2</p> <p>At the briefing you receive the following information: You are given a copy of the burn site map (Map 1). From the briefing site on the escarpment you can see the 600 acre project area and it is planned to burn the entire area with a low to moderate intensity burn for hazardous fuel reduction and resources benefits. The site is generally flat and has two low paralleling ridges up the center. The fuel is continuous mixed grass and shrub vegetation 2-6 foot tall. The two low ridges have several 100 foot wide spots with minimal vegetation.</p> <p>The organization will have a burn boss, ignition specialist, and three firing crews (one in each of the zones between the low ridges). Each crew will have 4-5 crew members with radio communication to the Ignition Specialist. The Ignition Specialist and Burn Boss will be located at the site on the escarpment. The Ignition Specialist will be able to see the entire firing operation from his vantage point. Firing will be with hand drip torches. Crew bosses will assure members have all PPE. It is expected to take 3-4 hours to complete he project.</p> <p>Did you receive all the information related to LCES that you need? Using the map, identify possible Escape Routes and Safety Zones.</p>	<p>03E-01-LCES-HO 03E-02-LCES-HO 03E-03-LCES-HO 03E-01-LCES-SL 03E-02-LCES-SL 03E-03-LCES-SL 03E-04-LCES-SL 03E-05-LCES-SL 03E-06-LCES-SL 03E-07-LCES-SL</p>
<p>C. SITUATION #3</p> <p>Crew 2 starts burning at 11 am. When the crew gets even with crews 1 and 3, they start firing. The objective is to have a relatively straight line across the entire burn area. An atv will be assigned to each crew for refueling.</p>	

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<p>At 1300 the burn is progressing well, the engines are easily holding the lines, project objectives are being met and you notice the smoke is rising 1,000 feet or more and moving off to the north.</p>	03E-04-LCES-SL
<p>At 1400 the burn is 70 % complete. You notice the smoke which had been moving north is now back over the fire. At 1415 you notice a large whirl wind or dust devil cross the fire line moving from the burned area to the unburned area.</p>	03-05-LCES-SL 03-06-LCES-SL
<p>At 1425 you notice additional whirl winds or dust devils in the burned portion of the unit.</p>	
<p>What are your concerns? What would you do?</p>	
<p><i>Check with your weather monitor on present weather conditions. Notify holding specialists of changing weather conditions. Consider LCES items in relation to your location. Check to make sure <u>Escape Routes</u> and <u>Safety Zones</u> are OK.</i></p>	
<p>D. SITUATION #3</p> <p>At 1445 the wind shifts 180 degrees and increases in speed. The fire starts actively burning through the unburned portion of the unit.</p> <p>What are your concerns? What would you do?</p> <p><i>Have people leave the burn area utilizing their identified Escape Routes and move to their Safety Zones. Squad leader stays in Communication with Ignition Specialist and Burn Boss. Ignition crews reassigned to holding crews when possible.</i></p>	03-07-LCES-SL

Spot Weather Forecast

TODAY: Fair with seasonable conditions. A cold front is approaching the area but is not expected to pass over the area until after dark.

Temp. 55 - 65 degrees, RH 30 - 40%, Wind 5 - 7 MPH from the S to SW increasing to 7 -12 MPH at sunset.

TONIGHT: A cold front will pass over the burn site after dark. Decreasing temperatures, increasing humidity, and increasing northerly winds can be expected.

Temp. 20 - 30 degrees, RH 80 - 100%, Winds N to NW 15 - 20 MPH, rain or possibly snow likely.

Expected Fire Behavior

Fuel Model 2 and 6

Head Fire-Flame length 6 ft. -10ft.

Rate of Spread 10 - 15 chains/hr.

Backing Fire - Flame lengths 2ft. - 4 ft.

Rate of Spread 2- 4 chains/hr.

THE PRESCRIBED FIRESCENARIO
LCES WORKSHOP

Table Group Responses

SITUATION #1 (Briefing)

What initial thoughts or concerns would you have?

What information would you expect to receive at the briefing related to LCES?

SITUATION #2 (BURN OPERATION)

Did you receive all the information related to LCES that you need?

Using the map, identify possible Escape Routes and Safety Zones.

SITUATION #3 (WIND EVENT)

What are your concerns? What would you do?

THE PRESCRIBED FIRES SCENARIO
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Table Group Responses - Instructor Reference

SITUATION #1 (Briefing)

What initial thoughts or concerns would you have?

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PERSONNEL: Qualifications and experience of crew members, adjoining squad leaders, and firing boss.

OPERATIONAL ACTIVITIES: Hand firing, refueling, communications, visibility, visual contact, timing of ignition, visual contact.

SITUATION #2 (BURN OPERATION)

Did you receive all the information related to LCES that you need?

Using the map, identify possible Escape Routes and Safety Zones.

Check with your weather monitor on present weather conditions. Notify holding specialists of changing weather conditions. Consider LCES items in relation to your location. Check to make sure Escape Routes and Safety Zones are OK.

SITUATION #3 (WIND EVENT)

What are your concerns? What would you do?

Have people leave the burn area utilizing their identified Escape Routes and move to their Safety Zones. Squad leader stays in Communication with Ignition Specialist and Burn Boss. Ignition crews reassigned to holding crews when possible.