



Fire Protection Training

Procedures Handbook 4300

MOBILE EQUIPMENT

TOPIC: Bulldozer Operations

TIME FRAME: 15 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will describe the safety precautions to follow when working around bulldozers.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Appropriate visual aids
- Audio visual equipment
- Bulldozer if available
- Chalkboard and chalk

REFERENCES:

- USFS, Health and Safety Code Handbook
- Field Operations Guide (ICS 420-1)

PREPARATION:

The bulldozer's ability to rapidly construct fire control lines makes it a widely used fire suppression tool. Because of the bulldozers size, power and limited operator visibility, there are definite safety rules to follow when working near one.



Fire Protection Training

Procedures Handbook 4300

BULLDOZER OPERATIONS

PRESENTATION	APPLICATION
<p>I. TERMINOLOGY</p> <ul style="list-style-type: none">A. CanopyB. WinchC. Tracks<ul style="list-style-type: none">1. Idler2. Drive sprocket3. Rollers4. Grouser padsD. Bulldozer Blade<ul style="list-style-type: none">1. Types<ul style="list-style-type: none">a. Angleb. Straight2. Ram3. Adjusting arm4. Push arm5. End bitsE. ICS Bulldozer Typing<ul style="list-style-type: none">1. Type I - Heavy<ul style="list-style-type: none">a. Equivalent of Caterpillar D-7 or D-82. Type II – Medium<ul style="list-style-type: none">a. Equivalent of Caterpillar D-5 or D-6	<p>Information sheets #1 and #2</p>



Fire Protection Training

Procedures Handbook 4300

BULLDOZER OPERATIONS

PRESENTATION	APPLICATION
<p>3. Type III - Light Equivalent of Caterpillar D-4</p> <p>F. Bulldozer Operator</p> <p>G. Bulldozer Swamper</p> <p>II. BULLDOZER USES</p> <p>A. Construct Fire Control Lines</p> <p>B. Construct Safety Zones</p> <p>C. Scatter or Reposition Heavy Fuels Near the Fire Perimeter</p> <p>D. Separate Burning from Unburned Fuels</p> <ol style="list-style-type: none">1. Cotton bales2. Hay bales3. Log decks4. Sawdust5. Debris piles <p>E. Construct or Improve Fireline Access Roads</p> <p>F. Construct Water Bars</p> <p>III. SAFETY</p> <p>A. Make Bulldozer Operator and Swamper Aware of Your Location</p> <ol style="list-style-type: none">1. Especially in dusty conditions or night operations <p>B. Be Alert for Rocks and Other Rolling Materials When Working Below Bulldozers</p>	



Fire Protection Training

Procedures Handbook 4300

BULLDOZER OPERATIONS

PRESENTATION	APPLICATION
<ul style="list-style-type: none">1. Move to safe location if bulldozer working directly above youC. Do Not Walk Directly in Front of or in Back of a Bulldozer<ul style="list-style-type: none">1. Limited operator visibility2. Trees being pushed over by the bulldozer sometimes fall far in front of the bulldozer's position.D. Remain at least 50 feet away while bulldozer is operatingE. Keep Hose Lays to One Side of the Constructed Bulldozer LineF. Do Not Approach the Bulldozer Until It has Stopped and the Operator has Signaled You<ul style="list-style-type: none">1. Remain in full view of operator at all timesG. Never Get On a Moving Bulldozer to Communicate with Bulldozer Operator<ul style="list-style-type: none">1. Pads snap shut at the top of the track and may trap a footH. Do Not Permit Anyone But the Bulldozer Operator to Ride on the BulldozerI. Watch Material Being Moved by a Bulldozer<ul style="list-style-type: none">1. Long logs2. Boulders3. Rocks	<p>Why? Bulldozer tracks will damage hose if driven over.</p>



Fire Protection Training

Procedures Handbook 4300

BULLDOZER OPERATIONS

PRESENTATION	APPLICATION
<ul style="list-style-type: none">4. Stumps J. When Entering an Area Where Bulldozers Have Completed Work, Watch for:<ul style="list-style-type: none">1. Loosened rocks2. Weakened trees3. Homeless rattlesnakes4. Irritated bees K. Do Not Sleep on a Bulldozer Line L. Stay Clear of Bulldozer Loading and Unloading Operations M. Advise Operator of Hazards<ul style="list-style-type: none">1. Power lines2. Fence lines3. Shafts, pits, or quarries4. Falling snags N. Support Bulldozer Fire Control Operations with Hoselays Where Possible	



Fire Protection Training

Procedures Handbook 4300

BULLDOZER OPERATIONS

SUMMARY:

Visibility of a bulldozer operator is limited. Therefore, crews working near and around bulldozers need to pay attention to what they are doing and where they are working in relation to the bulldozer.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).