



FIRE PROTECTION TRAINING

Procedures Handbook 4300

POWER TOOLS

TOPIC: VENTILATING A PITCHED ROOF USING A ROOF LADDER AND POWERSAW

TIME FRAME: 1:30

LEVEL OF INSTRUCTION: Level II

BEHAVIORAL OBJECTIVE:

Condition: A student and one assistant in full structure PPE and SCBA per CAL FIRE policy, standing on the ground, carrying a 14 foot roof ladder, a pitched roof building or prop with a maximum pitch of 45 degrees (12/12)

Behavior: The student will demonstrate the proper technique to safely ventilate a pitched roof using a powersaw

Standard: Completing all operations according to the job breakdown

MATERIALS NEEDED:

- Prop or building with a maximum 12/12 pitched roof
- One (1) Sounding tools
- One (1) pick head axe
- One (1) Powersaw
- Dolmar with proper fuel mix, bar oil, srench and
- Extra chains
- Spare air bottles
- Full structural PPE and SCBA per CAL FIRE policy
- 14 foot roof ladder

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 5th Edition

PREPARATION:

Ventilating a roof can be dangerous on typical roof construction in normal conditions. There are certain techniques which can assist firefighters in safely and efficiently make ventilation cuts under adverse conditions such as: steep pitched roofs and icy roof conditions.



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HOW TO VENTILATE A SPECIAL
SITUATION ROOF USING A LADDER

PRESENTATION

OPERATIONS	KEY POINTS
1. Access roof	1a. Climb extension ladder b. Carry 14 foot roof ladder aloft
2. Sound roof access point	2a. With sounding tool b. Ensure roof is solid and safe to access
3. Position roof ladder	3a. With roof hooks out b. Place roof ladder over roof peak c. Ascend roof ladder carrying sounding tool
4. Select cutting area	4a. Working off of roof ladder b. With sounding tool c. Locate structural members d. Check for stability and solidness of cut area
5. Tool switch	5a. Trade sounding tools/chainsaw with assistant
6. Create foothold using one of two methods	6a. Cut a triangular hole with a chainsaw (apex pointing up) b. Use the sounding tool or pick head axe c. High heat may be exiting from foothold



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PRESENTATION

OPERATIONS	KEY POINTS
7. Cut ventilation hole	7a. Using foothold for stability
	b. Use a 5-cut method
	c. Care must be taken when cutting towards or near the roof ladder
8. Tool switch	8a. Trade sounding tools/chainsaw with assistant
9. Open ventilation hole	9a. Remove roof material
	b. Open ceiling/drywall area below cut
10. Descend roof ladder	10a. Assistant descends first with saw
	b. Student with sounding tool
	c. To extension ladder
11. Exit roof	11a. Student carrying roof ladder
	b. Descend extension ladder



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APPLICATION:

The student will practice performing the operations in the job breakdown while under supervision.

EVALUATION:

The student will complete a manipulative performance test at a time determined by the instructor.

ASSIGNMENT:

Read and review lecture notes and prepare for the manipulative performance test.