



GOLDER RANCH FIRE DISTRICT

Firefighter I and II Practical Skill Sheets

Ventilation (Vertical)

Standards:

NFPA 1001: 4.3.12 (2019 Edition)

Task/Performance Outcome:

The candidate shall be given the objective of performing vertical ventilation on a flat or pitched roof in a specific location to remove heat and products of combustion from a structure.

Required Personal Protective Equipment (PPE):

Full turnout ensemble, full SCBA ensemble on air (prior to ascending the ladder).

Required Equipment:

- Radio for each firefighter
- Flashlight for each firefighter
- One chainsaw (Candidate)
- One axe
- One trash hook
- Thermal Imaging Camera (Captain)

Critical Fail Criteria:

Failure consists of the following:

- Failure to be seated and belted upon arrival.
- Failure to wear the required PPE.
- Failure to physically address their accountability on the passport of their assigned apparatus.
- Failure to exit the apparatus safely and with three points of contact.
- Glaring, gross errors, as documented by the evaluator.
- An apparent lack of efficiency and comfort with the activity, as documented by the evaluator.
- Less than 80% of available points scored.

Evolution Details:

The candidate's initial responsibility is to safely gather, handle, and start a chainsaw. Once the chainsaw is running, the chain-break must be applied until the candidate is on the roof and ready to start cutting. The candidate will complete donning their SCBA ensemble and be ready to ascend the ladder at the direction of their captain. The candidate must go on-air prior to ascending the ladder behind their captain.

When climbing the ladder, the candidate must have the chainsaw in one of their hands while maintaining three points of contact. Upon exiting the ladder onto the roof, the candidate must follow in the direction of the firefighter sounding the roof with the long tool. A 4x4 location will be provided to the candidate by a member of their crew. Upon the captain's direction, the candidate will assume the proper foot positioning and cut the 4x4 hole in the appropriate location using safe and appropriate techniques. The candidate shall make all cuts so that the roofing material can be louvered effectively and the ceiling can be broken out. Once vertical ventilation is complete with good return, the candidate shall apply the chain break, turn the saw off, and safely exit the roof with their crew.

The maximum allowed time for the evolution is 8 minutes, with a maximum time of 5 minutes on the roof. The time on roof starts when the first member of the crew begins ascending the ladder and stops when the last member of the crew exits the ladder.



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Actions	Points Available	Points Earned
Time starts upon instructor prompt or when first boot hits the ground.		
Secures chainsaw and starts on the ground	1	
Full SCBA ensemble donned and on air	1	
Climbs ladder safely with chain brake engaged	1	
Follows directly behind sounding firefighter for safety	1	
Waits for captain's direction to begin ventilation	1	
Establishes proper stance prior to cutting	1	
Plunge cut complete to determine rafter location	1	
Completes head cut rolling one rafter cutting away from egress	1	
Completes down cut (avoiding cutting towards feet)	1	
Completes bottom skim cut towards egress	1	
Completes final down cut (avoiding cutting towards feet)	1	
Engages chain brake, hands-off saw in exchange for long tool	1	
Louvers roof material considering weather conditions and egress	1	
Punches through ceiling on both sides of rafter	1	
Confirms positive return	1	
Follows directly behind sounding firefighter for safety	1	
Turns saw off before descending the ladder	1	
Exits the roof safely	1	
Time stops when candidate has completed the above criteria		
Total Points (15/18 to pass)	18	

Cut sequence may vary so long as the objective is completed safely, effectively, and efficiently

8:01 or more total time = Fail

Cancer Reduction Cab (CRC) Suppression Apparatus Configuration: Add 30 seconds to total time.

5:01 or more on the roof = Fail

Candidate: _____ Evaluator: _____ Total: _____/18

Circle one:

Pass/Fail on points/Fail on critical criteria

Comments _____

