

Skill Sheet 11-I-1

Objective 21: Ventilate a flat roof. (*NFPA® 1001, 5.3.12*)

Student Name: _____ **Date:** _____

Directions

For this skills evaluation checklist, students will ventilate a flat roof.

Equipment & Materials

- Full protective clothing including SCBA
- Extension ladder
- Flat, wood-raftered training roof
- Pike pole
- Pick-head axe

Criteria & Evaluation Comments

Criteria (determined by the AHJ)

After the candidate has completed the skill sheet, write comments below.

Evaluator/Candidate Comments

Pass Fail

Evaluator Signature Date Student Signature Date

Skills Evaluation Checklist

Objective 21: Ventilate a flat roof.

Task Steps		Yes	No
1.	Confirm order with officer to ventilate flat roof.		
2.	Size up scene for any hazards.		
3.	Select location for ventilation. <ul style="list-style-type: none"> a. Position upwind of planned ventilation opening. b. Sound for roof integrity. c. Observe fire and smoke conditions coming from roof. d. Place ventilation opening in safe working area as close to fire as feasible and away from roof mounted equipment. 		
4.	Outline ventilation opening with pick on axe or other similar tool. <ul style="list-style-type: none"> a. Must be at least 4' x 4' (1.2 m by 1.2 m) opening b. Remove gravel or other materials from outlines that may limit ability to cut opening. 		
5.	Cut three-sided (triangular) inspection opening in roof to determine fire conditions. <ul style="list-style-type: none"> a. Each side of cut 12" (300 mm) long b. First cut parallel to farthest support c. Cut through decking only. d. All cuts intersect to form a triangle. 		
6.	Cut roof deck parallel to a roof truss or support on side furthest away from ladder or escape route. This is cut #1. <ul style="list-style-type: none"> a. Downwind from position b. Cut is at least 4' (1.2 m) long. c. Inspection opening cut in Step 5 incorporated into this cut d. Cut is completely through decking material. e. Size up fire conditions inside roof from discharge through cut. f. Maintain situational awareness. 		

Task Steps		Yes	No
7.	<p>Cut roof deck on one side of opening perpendicular to the first cut – cut must intersect first cut in Step 6. This is cut #2.</p> <p>a. Begin cut away from escape route.</p> <p>b. Cut is at least 4' (1.2 m) long or three rafters wide – inside 1st rafter, over 2nd rafter and inside 3rd rafter.</p> <p>c. Cut is completely through decking material.</p> <p>d. Maintain situational awareness.</p>		
8.	<p>Cut roof deck on opposite side of cut made in Step 7 – cut must intersect cut made in Step 6. This is cut #3.</p> <p>a. Begin cut away from escape route.</p> <p>b. Cut is at least 4' (1.2 m) long.</p> <p>c. Cut is completely through decking material.</p> <p>d. Maintain situational awareness.</p>		
9.	<p>Complete the ventilation hole by cutting between cut #2 and cut #3.</p> <p>a. Cut is completely through decking material.</p> <p>b. Maintain situational awareness.</p>		
10.	<p>Remove decking from the ventilation opening with axe, pike pole, or other sounding tool.</p> <p>a. Keep decking out of ventilation opening.</p> <p>b. Size up fire conditions in the roof space.</p>		
11.	<p>Plunge through interior ceiling using pike pole working from upwind side of ventilation hole.</p>		
12.	<p>Report to officer completion of assigned task.</p>		