

**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-1**

<b>SKILL SHEET 14-1</b>	<b>Positive Pressure Ventilation</b>		
<b>OBJECTIVE:</b>	NFPA 1001, 4.3.11	<b>FEH Chapter: 14</b>	
<b>CANDIDATE NAME/NUMBER:</b>		No.:	
<b>TEST DATE/TIME</b>			
<b>EQUIPMENT REQUIRED:</b> [Add local requirements if needed]	<ul style="list-style-type: none"> <li>Personal protective equipment</li> <li>Self-contained breathing apparatus</li> <li>Fan or smoke ejector with hangers and bar</li> <li>Power line</li> </ul>		
<b>EVALUATOR INSTRUCTIONS</b>			
<b>CANDIDATE INSTRUCTIONS:</b>  <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	In this evaluation you will be expected to demonstrate how to ventilate a room or space using a fan or blower for positive pressure ventilation.		
<b>CRITERIA:</b>	<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>		
<b>Critical?</b>		<b>Pass</b>	<b>Fail</b>
	Wears full protective equipment properly		
	Selects proper point of entry		
	Selects proper exit point to remove smoke (other areas should be closed)		
	Properly positions fan to completely cover entry with cone of air		
	Properly connects to power source (if applicable)		
<b>EVALUATOR COMMENTS:</b>  [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
<b>EVALUATOR SIGNATURE:</b>			
<b>STUDENT SIGNATURE:</b>			

**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-2**

<b>SKILL SHEET 14-2</b>	<b>Negative Pressure Ventilation</b>		
<b>OBJECTIVE:</b>	NFPA 1001, 4.3.11	<b>FEH Chapter: 14</b>	
<b>CANDIDATE NAME/NUMBER:</b>		<b>No.:</b>	
<b>TEST DATE/TIME</b>			
<b>EQUIPMENT REQUIRED:</b> [Add local requirements if needed]	<ul style="list-style-type: none"> <li>Personal protective equipment</li> <li>Self-contained breathing apparatus</li> <li>Fan or smoke ejector with hangers and bar</li> <li>Power line</li> </ul>		
<b>EVALUATOR INSTRUCTIONS</b>			
<b>CANDIDATE INSTRUCTIONS:</b>  <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	In this evaluation you will be expected to demonstrate how to ventilate a room or space using a fan or smoke ejector.		
<b>CRITERIA:</b>	<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>		
<b>Critical?</b>		<b>Pass</b>	<b>Fail</b>
	Wears full protective equipment properly		
	Ensures proper placement in opening (same direction as natural wind)		
	Removes any material that might disrupt air flow (if applicable)		
	Covers area around fan to prevent churning		
	Connects to power properly		
<b>EVALUATOR COMMENTS:</b>  [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
<b>EVALUATOR SIGNATURE:</b>			
<b>STUDENT SIGNATURE:</b>			

**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-3**

<b>SKILL SHEET 14-3</b>	<b>Hydraulic Ventilation</b>		
<b>OBJECTIVE:</b>	NFPA 1001, 4.3.11	<b>FEH Chapter: 14</b>	
<b>CANDIDATE NAME/NUMBER:</b>		No.:	
<b>TEST DATE/TIME</b>			
<b>EQUIPMENT REQUIRED:</b> [Add local requirements if needed]	<ul style="list-style-type: none"> <li>Personal protective equipment</li> <li>Self-contained breathing apparatus</li> <li>Charged hose-line (1½-inch minimum)</li> </ul>		
<b>EVALUATOR INSTRUCTIONS</b>			
<b>CANDIDATE INSTRUCTIONS:</b>  <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	In this evaluation you will be expected to demonstrate how to ventilate a room or space using a hose-line.		
<b>CRITERIA:</b>	<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>		
<b>Critical?</b>		<b>Pass</b>	<b>Fail</b>
	Wears full protective equipment properly		
	Verbalizes proper methodology to perform task for various nozzles used by AHJ		
	Selects and demonstrates proper pattern to cover 85 to 90% of window or door opening		
	Selects proper distance from opening for maximum effectiveness		
	Closes nozzle slowly		
<b>EVALUATOR COMMENTS:</b>  [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
<b>EVALUATOR SIGNATURE:</b>			
<b>STUDENT SIGNATURE:</b>			

**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-4**

SKILL SHEET 14-4		Venting a Window or Glass Door	
OBJECTIVE:		NFPA 1001, 4.3.11	FEH Chapter: 14
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> <li>• Pike Pole</li> <li>• PPE &amp; SCBA</li> </ul>	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will demonstrate venting a window or glass door.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>	
Critical?		Pass	Fail
	Wearing full PPE, use the full reach of a tool to break the glass and remove all cross members and window frames.		
	Using the tool, pull down and remove any other objects obstructing the window such as drapes or blinds.		
	Run the tool along the edges of the window to ensure that all glass and sharp objects have been removed.		
	This window is now efficiently ventilating the structure and is also an effective exit point for any firefighters within the structure. This same procedure can be used with door glass to help in forcible entry. Remember when doing so that you have ventilated the structure.		
EVALUATOR COMMENTS:			
<b>[ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]</b>			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-5**

SKILL SHEET 14-5		Venting a Window off of a Ground Ladder	
OBJECTIVE:		NFPA 1001, 4.3.11	FEH Chapter: 14
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> <li>• Pike Pole</li> <li>• PPE &amp; SCBA</li> <li>• Ground Ladder</li> </ul>	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:  <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		The student shall simulate venting the window	
CRITERIA:		<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>	
Critical?		Pass	Fail
	The candidate places the ladder next to the window on the upwind side.		
	The firefighter ascends the ladder with a pike pole. Upon reaching the proper working height, the firefighter performs an appropriate leg lock.		
	The arm that is farthest from the window to be ventilated is placed between the two rungs directly in front of the firefighter. This hand grabs the butt of the pike pole. The other hand holds the pike pole from the outside of the beam.		
	The firefighter then positions the pike pole to the window, checking the swing. The firefighter then breaks the window, clearing as much of the window as possible.		
EVALUATOR COMMENTS:  [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-6**

SKILL SHEET 14-6	Sounding a Roof for Integrity		
OBJECTIVE:	NFPA 1001, 4.3.12	FEH Chapter: 14	
CANDIDATE NAME/NUMBER:		No.:	
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]	<ul style="list-style-type: none"> <li>Roof or roof prop</li> <li>Pike pole or other tool</li> <li>Ladder</li> <li>PPE &amp; SCBA</li> </ul>		
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:  <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	Student will demonstrate sounding the roof for integrity.		
CRITERIA:	<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>		
Critical?		Pass	Fail
	Using a tool, sharply strike the roof.		
	Listen and feel for any issues.  Student describes the integrity of the roof and what the sound and feel of the tool indicates.		
EVALUATOR COMMENTS:  [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-7**

SKILL SHEET 14-7	Inspection Hole: Halligan Punch		
OBJECTIVE:	NFPA 1001, 4.3.12	FEH Chapter: 14	
CANDIDATE NAME/NUMBER:		No.:	
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]	<ul style="list-style-type: none"> <li>Roof or roof prop</li> <li>Halligan Tool</li> <li>Ladder</li> <li>PPE &amp; SCBA</li> </ul>		
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:  <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	Student will perform a Halligan punch.		
CRITERIA:	<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>		
Critical?		Pass	Fail
	Use the spike end of the Halligan, poke pole, or similar tool, to punch a hole into the roof.		
	If needed, clear the shingles and debris from the hole.		
EVALUATOR COMMENTS:  [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-8**

SKILL SHEET 14-8	Inspection Hole: Kerf Cut		
OBJECTIVE:	NFPA 1001, 4.3.12	FEH Chapter: 14	
CANDIDATE NAME/NUMBER:		No.:	
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]	<ul style="list-style-type: none"> <li>Roof or roof prop</li> <li>Power Saw</li> <li>Ladder</li> <li>PPE &amp; SCBA</li> </ul>		
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:	Student will perform a kerf cut.		
	<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		
CRITERIA:	<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>		
Critical?		Pass	Fail
	Using the saw simply to plunge the blade into the roof, then pull it back out. This creates a slit in the roof.		
	Examine the slit for smoke or fire.		
EVALUATOR COMMENTS:			
[ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			



**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-9**

SKILL SHEET 14-9		Triangular Cut	
OBJECTIVE:		NFPA 1001, 4.3.12	FEH Chapter: 14
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> <li>• Roof or roof prop</li> <li>• Power Saw</li> <li>• Ladder</li> <li>• PPE &amp; SCBA</li> </ul>	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will perform a triangular inspection cut.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		<b>NOTE: Based on material from the Skill Drill Instructor Guides</b>  <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>	
Critical?		Pass	Fail
	This method allows the firefighter to cut the triangular cut without moving their feet. Some departments advocate relocating your stance in order to avoid cutting toward their body. Always follow your department's SOPs.		
	Taking a boxer's stance, make the first cut starting in the center and cutting down toward your right boot.		
	Next, cut vertically, starting at the top of the first cut and cutting downward to the center of your stance. Make sure to overlap cuts.		
	The third cut is horizontal, going from left to right overlapping the bottom of the first two cuts, creating the bottom leg of the triangle. When creating an inspection hole, make sure the hole is not large enough for a firefighter to fall through.		
EVALUATOR COMMENTS:			
[ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			

*FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II*  
Instructor Curriculum Skill Evaluation Sheet 14-9

STUDENT SIGNATURE:	
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**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-13**

SKILL SHEET 14-13	Coffin Cut		
OBJECTIVE:	NFPA 1001, 4.3.12	FEH Chapter: 14	
CANDIDATE NAME/NUMBER:		No.:	
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]	<ul style="list-style-type: none"> <li>Roof or roof prop</li> <li>Power Saw</li> <li>Ladder</li> <li>Pike Pole</li> <li>PPE &amp; SCBA</li> </ul>		
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:  <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	Student will perform a coffin cut.		
CRITERIA:	<b>NOTE: Based on material from the Skill Drill Instructor Guides</b> <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>		
Critical?		Pass	Fail
	When performing a coffin cut, one must remember the numbers 7, 9, 8.		
	Make two cuts in the roof, resembling a 7, being sure to stay on the outside of the number, creating knockouts for the corner. The top of the 7 is approximately 4 ft. long, and the side of the 7 is approximately 8 ft. long		
	Enclose the 7, with two more cuts, to create a shape resembling a 9, keeping in mind that you need to stay on the outside of the cutting area.		
	Last, enclose the 9 with two more cuts, which will resemble an 8. Create knockout holes as necessary.		
	When ordered to do so, pull up the two pieces, creating a large 4-ft by 8-ft vent section.		
EVALUATOR COMMENTS:  [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			

*FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II*  
Instructor Curriculum Skill Evaluation Sheet 14-13

STUDENT SIGNATURE:	
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**FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II**  
**Instructor Curriculum Skill Evaluation Sheet 14-17**

SKILL SHEET 14-17		Breaching a Floor	
OBJECTIVE:		NFPA 1001, 4.3.12	FEH Chapter: 14
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> <li>• Axe</li> <li>• Pike Pole</li> <li>• PPE &amp; SCBA</li> </ul>	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:  <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		The student will breach a floor.	
CRITERIA:		<b>NOTE: Based on material from the Skill Drill Instructor Guides</b>  <b>[ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]</b>	
Critical?		Pass	Fail
	Make sure the area is clear, then cut away carpet to reveal the wooden floor if necessary. Power saws are typically used, but an axe and Halligan may also be used.		
	Strike close to the beam with the axe blade hitting at an angle to allow penetration into the hardwood.		
	Use prying tools to help if it is a masonry floor. Special tools may be needed; consider the risk versus benefit of each tool.		
EVALUATOR COMMENTS:  [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			