

NHFA FIREFIGHTER I COURSE GUIDE, UNIT 11: TOOL & EQUIPMENT

CHAP	SKILL DRILL	SKILL #	STAND. EVOL. #
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11	Bolt Cutters	11-2	
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**NH FIRE ACADEMY FIREFIGHTER I
UNIT 11, LAB BLOCK 1 (4 HR)**

CLASS NAME: TOOLS & EQUIPMENT

NUMBER OF INSTRUCTORS: 5

EQUIPMENT NEEDED	Atmospheric Monitor Pick-head axe Flat-head axe Bolt cutters Splitting Maul Sledgehammer Halligan	Pike Pole Rotary Saw Chain Saw Reciprocating Saw Salvage Covers Gas/oil
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FACILITY NEEDED	An area large enough where students and instructors can conduct breakout sessions.
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SKILL DRILL REFERENCE	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9
	11-10	11-11	11-12	11-13	11-15	11-16	11-17	11-18	11-19
	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28
	11-29	11-30	17-22						

GENERAL INSTRUCTION	Divide class into 4 groups. Students and instructors need to wear the appropriate PPE when working/handling tools and saws.
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**NH FIRE ACADEMY FIREFIGHTER I
UNIT 11, LAB BLOCK 1 (4 HR)**

EVOLUTION	DESCRIPTION
Hand Tools	<p>Instructor will place hand tools into 4 categories (cutting, striking, Prying, and Push-pull). The instructor shall demonstrate how to use each tool, discuss their application, and safe handling of the tool. This will be an open discussion with the students.</p> <p>Each student shall then demonstrate how to properly and safely handle the tool and describe their application. Skill Drill 11-1, 11-2, 11-3, 11-4, 11-5, 11-6, 11-7, and 11-8</p>
Power tool	<p>Instructor shall demonstrate how to maintain (Fuel, oil, change a blade or chain), start, travel, and cut (metal or wood) with a variety of power saws (rotary, chain, and reciprocating saw).</p> <p>Students shall demonstrate how to properly maintain (Fuel, oil, change a blade or chain), start, travel, and cut (metal or wood) with a variety of power saws (rotary, chain, and reciprocating saw). Skill Drill 11-15, 11-16, 11-17, 11-18, 11-19, 11-20, 11-21, 11-22, 11-23, 11-24, 11-25, 11-26, 11-27, 11-28, 11-29, and 11-30</p>
Air Monitor	<p>The instructor shall demonstrate how to properly operate and field calibrate an Atmospheric Monitor</p> <p>The Student shall demonstrate how to properly operate and field calibrate a Atmospheric Monitor Skill Drill 17-22</p>
Tool Maintenance	<p>Working together the instructor and students shall demonstrate how to properly maintain a variety of hand tools Skill Drill 11-9, 11-10, 11-11, 11-12, and 11-13</p>

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SKILL SHEET 17-22		Atmospheric Monitor Operation	
OBJECTIVE:		NFPA 1001, 4.3.21	FEH Chapter:
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> Atmospheric Monitor or trainer 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Student will start and prepare meter for use. Student will then return meter to service.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Remove meter from charging cable or cradle.		
	Make sure meter is in an uncontaminated atmosphere.		
	Turn on meter and allow it to go through the startup process.		
	Zero or fresh air calibrate meter.		
	Verify LEL and toxic sensors are 0, and O2 is between 20.8 and 21.0 %.		
	Shut down meter.		
	Replace on charging cable or cradle.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II
Instructor Curriculum Skill Evaluation Sheet

SKILL SHEET 11-1		Pick-Head Axe	
OBJECTIVE:		NFPA 1001, 4.3.11 and 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Pick Head Axe • Ventilation Prop • PPE/SCBA 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Student will demonstrate using a pick-head axe.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Grasp the handle firmly and find a stance that is comfortable and compatible with the surface on which you are working.		
	Spread your feet and center your body weight. Flex your knees, and hold the axe handle where it feels comfortable.		
	Your hands should go no higher than your shoulders on the upswing. Do not let the axe head go behind your head and shoulders.		
	As you swing, slide one of your hands along the shaft of the handle to meet the other hand, which is grasping the bottom.		
	Let the axe drop into place, using the weight of the tool to gain momentum, and concentrating on accuracy, swing the axe so the blade strikes the surface at a slight angle.		
	If the blade sticks in the material, work the handle up and down a few times to release the blade.		
	The firefighter may also place a foot under the axe handle to help wedge the axe out of the roof.		
	For pick-head axes that are deeply stuck, release the axe by gripping the handle with one hand and grasping the pick with the other, working the axe head back and forth to release the blade.		
	When using the pick side to make a starting hole in appropriate material, flip the axe over and set your stance. Maintain a firm grip to prevent the tool from rolling to the blade side.		
	Swing as though using the blade side, using the weight of the tool to drive the pick.		

	<p>If the pick gets stuck, push the handle forward a little, and then pull it back toward you. If the pick won't release, lower the handle parallel to the surface you are cutting and rotate the handle 15° in either direction.</p>		
<p>EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]</p>			
<p>EVALUATOR SIGNATURE:</p>			
<p>STUDENT SIGNATURE:</p>			

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SKILL SHEET 11-2		Bolt Cutters	
OBJECTIVE:		NFPA 1001, 4.3.11 and 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Bolt Cutters • Dead Bolt Lock or prop • PPE/SCBA 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will demonstrate using bolt cutters.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Bolt cutters are not designed for casehardened material such as high-security padlocks. If you encounter those, choose another tool.		
	Evaluate the material to be cut prior to choosing a bolt cutter, and always wear full PPE (personal protective equipment) and eye protection when using bolt cutters.		
	Cut lock shackles high on the shackle away from the body of the lock to avoid jamming the lock and to give you another place to make a purchase. Remember to put equal pressure on the handles and try to avoid twisting during the cut.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-3		Flat-Head Axe	
OBJECTIVE:		NFPA 1001, 4.3.11 and 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Flat-Head Axe • Ventilation Prop • PPE/SCBA 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Student will demonstrate using a flat-head axe.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	To use the flat-head axe as a cutting tool, use the same technique as the pick-head axe. Grasp the handle firmly and find a stance that is comfortable and compatible with the surface on which you are working.		
	Spread your feet and center your body weight. Flex your knees, and hold the axe handle where it feels comfortable.		
	Your hands should go no higher than your shoulders on the upswing. Do not let the axe head go behind your head and shoulders.		
	As you swing, slide one of your hands along the shaft of the handle to meet the other hand, which is grasping the bottom.		
	Let the axe drop into place, using the weight of the tool to gain momentum, and concentrating on accuracy, swing the axe so the blade strikes the surface at a slight angle.		
	If the blade sticks in the material, work the handle up and down a few times to release the blade.		
	The firefighter may also place a foot under the axe handle to help wedge the axe out of the roof.		

EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]	
EVALUATOR SIGNATURE:	
STUDENT SIGNATURE:	

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SKILL SHEET 11-4		Eight-Pound Splitting Maul	
OBJECTIVE:		NFPA 1001, 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Eight-Pound Splitting Maul • Ventilation Prop / Forcible Entry Prop • PPE/SCBA 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Student will demonstrate using a splitting maul.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	When cutting, hold the splitting maul as you would an axe. Hold the handle tightly to prevent it from flipping around in your hands. It will tend to invert to the striking side.		
	Use the weight of the tool to gain momentum. Do not take giant strokes, but controlled swings, as you would the axe. Accuracy is the key.		
	Slide one hand down the handle to meet the other hand, which should have a firm grip on the bottom of the handle.		
	When the maul gets stuck, free it by twisting the handle to the right or left approximately 15°.		
	When using the splitting maul as a striking tool, hold the tool at waist level, aligning it with the tool or object to be struck.		
	Arrange your stance so you can effectively and strongly pivot your hips and hit the target. Accuracy and control are important, but it is unnecessary to swing the tool in a full arc to get the benefit as a striker.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-5		Sledgehammer	
OBJECTIVE:		NFPA 1001 4.3.4 and 4.3.7	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Sledgehammer • Forcible Entry Prop • PPE/SCBA 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will demonstrate the correct way to use a sledgehammer.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	To use the sledgehammer as a striking tool, hold the tool at waist level, lining up the flat striking surface against the tool or object you are striking, and instruct the firefighter holding the tool you will strike to remain still.		
	Arrange your stance so you can effectively and strongly pivot your hips and hit your target.		
	Use the weight of the tool to gain momentum. Do not swing in a full arc.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-6		Carrying Tools	
OBJECTIVE:		NFPA 1001, 4.3.11 and 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Various Tools • PPE/SCBA 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		The Student will demonstrate the appropriate manner to carry various tools.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Student demonstrates the safest way to carry an axe, maul, or sledgehammer by grasping the handle close to the head of the tool with the handle pointing away. The handle can be used to gently clear the path without hurting anyone with the steel tool head.		
	Student demonstrates carrying a pick-head axe.		
	Student demonstrates carrying a flathead axe.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-7		Halligan Tool	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Halligan Tool • PPE/SCBA 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will demonstrate each use of the Halligan tool.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Grasp the bar firmly and find a stance that is comfortable and compatible with the surface on which you are working.		
	Depending on what your task will be, will depend on if you use the fork, adz, or the spike end and those ends will provide different mechanical advantages		
	The Halligan can be used like a baseball bat to swing and sink the pick into a wooden door jam.		
	Placing the fork between the door and the jam slightly about or below the latching hardware to be hit using a flat head ax.		
	The Halligan can be used for search and rescue by grasping the bar firmly and slowly swinging side to side for long reach		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-8		Pike Pole	
OBJECTIVE:		NFPA 1001, 4.3.11	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Pike Pole • PPE/SCBA 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		The Student will show various uses of the pike pole.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Grasp the handle firmly and find a stance that is comfortable and compatible with the surface on which you are working.		
	Spread your feet and center your body weight. Flex your knees, and hold the handle where it feels comfortable.		
	When pulling ceiling always drive the pole up through the ceiling and step back to pull the ceiling down.		
	When pulling wall coverings place one foot behind the other before pulling to keep balance		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-9		Axe Maintenance	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Axe • Mill Bastard File • Wire Brush • Sand Paper • Light Machine Oil • Boiled Linseed Oil • Cleaning Cloth 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		The Student will perform maintenance on an axe.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Remove all paint from the axe head. Sand or use a wire brush until the steel is clean and shiny.		
	Use a mill bastard file to maintain the cutting edge of the axe.		
	Put a thin coating of light machine or motor oil on the tool head.		
	If the handle is wooden, sand smooth and inspect for splintering and cracks.		
	Wipe with a tack cloth to remove dust.		
	Coat handle with boiled linseed oil and work well into the wood.		
	For plastic handles, clean thoroughly with a mild detergent and scrub brush. Then dry thoroughly.		
	For fiberglass handles, inspect for splintering and cracks. Clean with soap and water and dry thoroughly. Inspect for rough spots, these can be sanded with fine grit sand paper and wiped with a damp cloth. If fibers are showing, or if cracks develop, replace the handle.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II
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SKILL SHEET 11-10		Bolt Cutter Maintenance	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Bolt Cutter • Mill Bastard File • Wire Brush • Sand Paper • Light Machine Oil • Boiled Linseed Oil • Cleaning Cloth 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		The Student will perform maintenance on a bolt cutter.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Use a mill bastard file to maintain the cutting edge on the blades of the bolt cutter jaws.		
	When finished, wipe the entire tool with light oil. Do not get oil on rubber handles.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-11		Pry Bars, Claw Tools, and Halligan Tools Maintenance	
OBJECTIVE:		NFPA 1001, 5.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Pry Bar and/or Halligan • Mill Bastard File • Wire Brush • Sand Paper • Light Machine Oil • Boiled Linseed Oil • Cleaning Cloth 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		The candidate will perform maintenance on a Pry Bar or Halligan	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Use a mill bastard file to maintain the cutting edge on the blade, adz or forks		
	When finished, wipe the entire tool with light oil. Do not get oil on rubber handles.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-12	Striking Tool Maintenance		
OBJECTIVE:	NFPA 1001, 4.5.1	FEH Chapter: 11	
CANDIDATE NAME/NUMBER:		No.:	
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]	<ul style="list-style-type: none"> • Sledge Hammer • Mill Bastard File • Wire Brush • Quick Drying Acrylic Paint • Boiled Linseed Oil • Cleaning Cloth 		
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	The Student will perform maintenance on a striking tool.		
CRITERIA:	NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]		
Critical?		Pass	Fail
	Remove all paint from the tool head.		
	Sand or use a wire brush until the steel is clean and shiny.		
	Use a mill bastard file to maintain the striking surface of the tool head. Do not remove too much metal or change the shape of the tool face.		
	Prime and paint the tool with a quick-drying acrylic paint.		
	If the handle is wooden, sand smooth and inspect for splintering and cracks.		
	Wipe with a tack cloth to remove dust.		
	Coat handle with boiled linseed oil and work well into the wood.		
	For plastic handles, clean thoroughly with a mild detergent and scrub brush. Then dry thoroughly. For plastic handles, clean thoroughly with a mild detergent and scrub brush. Then dry thoroughly.		
	For fiberglass handles, inspect for splintering and cracks. Clean with soap and water and dry thoroughly. Inspect for rough spots, these can be sanded with fine grit sand paper and wiped with a damp cloth. If fibers are showing, or if cracks develop, replace the handle.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-13		Push-Pull Tools Maintenance	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Pike Pole • Mill Bastard File • Sand Paper • Quick Drying Acrylic Paint • Boiled Linseed Oil • Cleaning Cloth 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		The Student will perform maintenance on a push-pull tool.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Use a mill bastard file to maintain all sharp surfaces on the tool head.		
	Use fine grit sandpaper to remove all dirt and rough metal from the tool head.		
	Prime and paint.		
	If the handle is wooden, sand smooth and inspect for splintering and cracks.		
	Wipe with a tack cloth to remove dust.		
	Coat handle with boiled linseed oil and work well into the wood.		
	For plastic handles, clean thoroughly with a mild detergent and scrub brush. Then dry thoroughly.		
	For fiberglass handles, inspect for splintering and cracks. Clean with soap and water and dry thoroughly. Inspect for rough spots, these can be sanded with fine grit sand paper and wiped with a damp cloth. If fibers are showing, or if cracks develop, replace the handle.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-15	Saw Operation – Starting A Cold Engine		
OBJECTIVE:	NFPA 1001, 4.3.12	FEH Chapter: 11	
CANDIDATE NAME/NUMBER:		No.:	
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]	<ul style="list-style-type: none"> • Rotary Saw • Chain Saw • PPE 		
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	The student will demonstrate the appropriate steps to a cold start Saw.		
CRITERIA:	NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]		
Critical?		Pass	Fail
	Shake the saw prior to starting it to make sure the gas and oil mixture is properly mixed.		
	Check that the stop or kill switch is pushed in or set in the off position.		
	If a chain saw, the chain brake must be engaged before starting		
	Engage or pull out the choke lever, switch, or handle.		
	Engage the throttle handle trigger and throttle lock.		
	If the saw is equipped with a decompression button, press the button to reduce pressure on the cylinder, which will make the saw easier to start. Place one boot into the saw handle while bending over to grab onto the control handle with your left hand. Using your right hand, grip the starter cord handle.		
	Slowly pull the starter cord out. When some resistance is felt, pull quickly upward with your right arm.		
	Once the saw starts, apply full throttle to disengage the throttle lock.		
	If the saw starts, sputters, or runs for only a few seconds, attempt to push in the choke lever to keep it running.		
	Once the saw is running, release the chain brake if there is one to allow the blade to rotate. Apply the chain brake to stop the rotation		
	If the saw is a rotary saw ensure the blade has stopped rotating and lift the saw upward toward the cutting task.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			

EVALUATOR SIGNATURE:	
STUDENT SIGNATURE:	

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SKILL SHEET 11-16		Saw Operation – Starting A Warm Engine	
OBJECTIVE:		NFPA 1001, 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Rotary Saw • Chain Saw • PPE 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:			
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Once a saw has been running for a period of time, the starting sequence may differ from when starting a cold saw. There is no need to choke the saw again. Other than choking the saw, follow the same sequence as previously listed.		
	If after two pulls, the saw shows no signs of starting, it may have to be choked.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-17		Saw Operation	
OBJECTIVE:		NFPA 1001, 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Rotary Saw • Chain Saw • PPE 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:			
		<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Follow all of the previous mechanical procedures The change is in the firefighter's body position, behind the saw in a balanced squatting stance.		
	Exert downward pressure with your right knee on the saw's air cleaner or upper housing.		
	Extend your right arm forward and hold onto the control handle of the saw, to keep it balanced. Use your left arm to pull up on the starter cord to start the saw.		
	This technique puts your hands closer to the choke and throttle levers once the saw is started and shortens the pulling distance of the starter cord. It allows you to lift the saw upward using your leg and back muscles together, thus reducing the chances of injury. It can be used on various types of saws.		
EVALUATOR COMMENTS:			
[ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-19		Cutting Vinyl Siding with Wood Sheathing, Wood Flooring, and Roof Ventilation With a Circular Saw	
OBJECTIVE:		NFPA 1001, 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Rotary Saw • PPE • Roof Ventilation Prop 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Using a saw with a carbide tip blade or multipurpose blade, bring the saw up to full revolutions per minute (rpm) before engaging the material to be cut.		
	When the saw is placed parallel to the material being cut, the saw's foot bracket should rest on the material, acting as a pivot point. Once the saw is brought up to full rpm, lift the throttle handle upward and pivot the saw on the foot bracket, bringing the blade closer to the material being cut.		
	Control and balance of the saw must be maintained while operating the throttle with one arm and holding the control arm with the other. Once the saw is cutting, maintain full RPM while dragging, pulling, or walking the saw back toward the body. When it is necessary to cut at a low level or near the ground, the saw housing can be supported by a boot. You can also use your upper leg to support the saw when cutting must be made below the waistline. If the cut is at chest level, you may be able to press your chest into the saw's housing to support the cut. When performing cuts in precarious positions, it may be necessary to move the saw's blade guard to protect the firefighter from flying debris from the cut.		
	Manual hand signals are often used when cutting with a saw. <ul style="list-style-type: none"> - One tap: stop cut. - Two taps: cut. - Three taps: shut down. 		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-20		Cutting Metal with an Aluminum Oxide Blade or Brick with a Silicon Carbide Blade	
OBJECTIVE:		NFPA 1001, 4.3.4	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Rotary Saw with Aluminum Oxide or Silicon Carbide Blade. • PPE • Metal Cutting Prop or Brick Cutting Prop. 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:			
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	When the blade first comes into contact with the material, it should rotate at a slow to moderate speed, to enable the blade to start a groove in the material to be cut.		
	Once the groove is created, the saw can be brought up to full rpm to complete the cut.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-21		Refueling a Saw	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Power Saw • PPE • Funnel • Fuel 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Candidate will refuel a saw.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Ensure that the saw is shut down and possibly moved to a safe location. Use extreme caution because the saw's exhaust is extremely hot, and any spillage of the gas and oil mixture could ignite. Make sure that the area is clean of sawdust, dust, and debris.		
	Always open the fuel cap gradually to slowly release any overpressure that exists in the tank.		
	Shake the gas can prior to fueling the saw to ensure the fuel is properly mixed. Always refuel with a small funnel to prevent spillage or injury.		
	After fueling, always tighten the fuel cap carefully, ensuring that the threads line up and the cap and gasket fit tightly on the saw housing.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-22		Maintenance of Circular Saw	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Circular Saw • PPE 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Candidate will perform maintenance on a circular saw.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Follow your manufacturer's instructions for each particular saw model.		
	After every use, check that the saw and saw guard blade are clean and free of debris that would affect their operation.		
	Check that the saw's throttle components, choke, and shutoff operate freely and correctly.		
	Make sure that the saw's starter cord and handle are free from defects.		
	Make sure that all bolts and nuts are tight and secure.		
	Check that the fuel tank is full and the cap is secured.		
	Check the clutch assembly and ensure that the belt is adjusted properly.		
	Periodically check that the air filter gets changed, fuel filter is changed, spark plugs are cleaned, belts and clutch assembly are adjusted, and cables and electrical connections are secure.		
	Clean the cooling fins of dust and debris.		
	Check that the muffler is securely attached.		
	Check that the carburetor functions properly.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-23		Changing a Circular Saw Blade	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Circular Saw • PPE • Wrench and chock tool 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Candidate will change a circular saw blade.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Ensure that the saw is off. Wearing gloves and eye protection, remove the saw blade with the appropriate chock tool or wrench.		
	Once the chock bolt is removed, remove the blade.		
	Insert the new blade. Make sure that it is the appropriate chock size.		
	Reinsert the chock bolt and tighten.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-24		Traveling with a Chain Saw	
OBJECTIVE:		NFPA 1001, 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Chain Saw • PPE 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will demonstrate traveling with a chainsaw.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	When changing locations, be sure that the chain has stopped rotating. Engage the chain brake if the saw is equipped with one, before moving to a new location.		
	You can also roll the saw on the chain when traveling with a live saw.		
	If the saw isn't running, carry it with the chain facing toward the rear. If you trip or fall forward, you will not land on the blade, and it is less likely to strike another firefighter.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-26		Cutting Vinyl Siding with Wood Sheathing, Wood Flooring, and Roof Ventilation With a Chainsaw	
OBJECTIVE:		NFPA 1001, 4.3.12	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Chain saw • PPE • Roof prop 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Candidate will cut wood with a chain saw.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Normally only a few inches of the tip and a few inches of the bar are used to cut through a material. Burying the whole bar and blade is dangerous because it could cut through a structural joist, causing a possible collapse. If the saw has a depth gauge, it should be set to cut only through the roofing material.		
	When cutting begins, the chain must be plunged into the roofing material to start the cut line. The saw should be brought up to full rpm prior to engaging the material.		
	If the chain saw is equipped with a depth gauge or safety guard, the underside of the guard and the tip can be placed on the roofline. The saw can pivot on the guard as you bring the saw up to full rpm and then rotate the tip into the roofing material.		
	One the saw has plunged through the material, it cuts back toward the operator. Hold it in an almost vertical position during the cut, and run it at full speed. Keep an eye on the debris thrown to judge how the cut is progressing.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II
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SKILL SHEET 11-27		Chain Saw Maintenance	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Chain saw • PPE • Replacement Chain • Wrench 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Candidate will perform maintenance on a chain saw.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Clean and inspect the guide bar for wear and damage, and run a narrow object around the entire channel that the chain rides in to remove any debris.		
	Maintain the saw with a sharp and properly adjusted chain.		
	Ensure that the oil discharge ports are clear and oil flows freely through the bar, and that the oil reservoir and fuel tanks are full.		
	Clean and inspect the air intake and remove any dust or debris from the openings. When re-applying the chain onto the bar, ensure the chain's teeth are facing the proper direction.		
	Ensure the air cleaner is free from dust and debris.		
	Clean and remove any sawdust or debris from around the sprocket and inside the saw's sprocket housing cover.		
	Ensure the depth gauge or chain guards are in good working order.		
	Wipe off the saw housing and any areas that may have any excess oil.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-28		Changing a Chain Saw Chain	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Chain saw • PPE • Replacement Chain • Wrench 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Candidate will change a chain saw chain.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Remove the two bolts located at the base of the chain saw bar, and remove the cover.		
	Loosen the chain by sliding the bar toward the saw. Slide the chain off of the tip of the bar and remove it from around the clutch sprocket.		
	At this time, ensure that the bar is in good working order.		
	Reinstall a new sharpened chain by placing it around the clutch sprocket and over the tip of the bar.		
	Replace the cover and tighten the two bolts.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-29		Reciprocating Saw Maintenance	
OBJECTIVE:		NFPA 1001, 4.5.1	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Reciprocating Saw • PPE • Replacement Blade 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Candidate will perform maintenance on a reciprocating saw.	
<i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>			
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	After each use, clean the saw of dust dirt and debris.		
	If cordless design, recharge the batteries.		
	Install a new blade. The old blade may be used for drill periods.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-30		Reciprocating Saw Operation	
OBJECTIVE:		NFPA 1001 4.3.4 and 4.3.7	FEH Chapter: 11
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Reciprocating Saw • PPE • Replacement Blade 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		The Student will utilize a reciprocating saw.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Ensure that the saw is equipped with the proper blade for the cutting operation. Hold the control handle in one hand, with your index finger on the speed control trigger. Place your other hand around the saw near the blade, holding it around the tool's shaft, or grip handle.		
	Hold the blade slightly off of the material, with the safety shoe up against the material, and slowly engage the trigger to make a cut line into the material.		
	Once the blade has a bite into the material, operate the saw at full speed or a slower speed depending on the cutting operation.		
	If the saw sounds like it is laboring, one of the following could be the problem: Too much pressure is being applied on the material being cut. The saw needs to be run at a higher speed. The speed of the cut must be slowed down to enable the blade to do its work. The blade may need replacing. In some cutting operations, the saw can be pivoted on the safety shoe, in an up-and-down motion, to help the blade cut through the material		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			