

NHFA FIREFIGHTER I COURSE GUIDE

UNIT 12: FORCIBLE ENTRY

CHAP	SKILL DRILL	SKILL #	STAND. EVOL. #
12	Sizing up Padlocks	12-1	
12	Heavy-Duty Padlocks with a Duckbill Lock	12-3	
12	Regular Padlock using a Halligan Tool and Flat-	12-4	
12	Forcing Inward-Opening Door: Two Firefighters	12-7	
12	Forcing Inward-Opening Door: One Firefighters	12-8	
12	Through-the-Lock Technique	12-10	
12	Force An Outward-Opening Door	12-11	
11	Rotary Saw Operation – Starting A Cold Engine	11-15	
11	Rotary Saw Operation – Simple Saw Starting	11-17	
11	Cutting Metal	11-20	
11	Starting a Chain Saw	11-25	
11	Operating a Chainsaw	11-26	



**NH FIRE ACADEMY FIREFIGHTER I
UNIT 12 BLOCK 1 (4HR)**

CLASS NAME: FORCIBLE ENTRY

NUMBER OF INSTRUCTORS: 4

EQUIPMENT NEEDED	<ul style="list-style-type: none"> • Door prop • FETS • Multiple cylinder locks • K-Tool kit • Axes • Halligans • Hand powered door jam tool • Air supply • Props (Interior wall, floor, and Exterior wall)
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FACILITY NEEDED	An area suitable for use of the props that is large enough to permit multiple evolutions. Consideration for protection from severe weather during cold or extreme heat conditions should be evaluated
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SKILL DRILL REFERENCE	12-1	12-3	12-4	12-7	12-8	12-10	12-11	12-19
	12-20	12-21						

GENERAL INSTRUCTION	<p>Divide the students into groups. These groups shall rotate until all students have completed the required skills.</p> <p>During the execution of the skills, students should be in the appropriate PPE including SCBA. The level of PPE and SCBA should conform to the normal level that would be employed in an actual situation.</p>
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NH FIRE ACADEMY FIREFIGHTER I

UNIT 12 BLOCK 1 (4HR)

EVOLUTION	DESCRIPTION
Inward and outward door	<p>The Instructor shall demonstrate a single firefighter opening a door inward and two firefighter inward & outward swinging door using the door prop</p> <p>Each student shall demonstrate a single firefighter and two firefighter opening an inward and outward swinging door (Skill Drills 12-7, 12-8, and 12-11)</p>
Locks	<p>The Instructor shall demonstrate sizing up a padlock and use the appropriate tools to force the lock open.</p> <p>The Instructor shall demonstrate using the K-Tool and Key Tools to manipulate a series of locks using the FETS and a selection of lock cylinders.</p> <p>The student shall demonstrate sizing up a padlock and use the appropriate tools to force the lock open and using the K-Tool to manipulate a series of cylinder locks (Skill Drill 12-1, 12-3, 12-4, and 12-10)</p>
Power tool	<p>Instructor shall demonstrate how to operate a chain saw and rotary saw. The material used should be a pallet for the chain saw and rebar for the rotary saw.</p> <p>Students shall demonstrate how to properly operate a chain saw and rotary saw by cutting pallets and rebar. (Skill Drill 11-15, 11-16, and 11-25)</p>
Door and window size up	<p>Working with the students the instructor shall discuss and show students how to size up doors and window for entry.</p>

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

SKILL SHEET 12-1		Sizing up Padlocks	
OBJECTIVE:		NFPA 1001, 4.3.4	FEH Chapter: 12
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Padlock 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will size-up a padlock.	
<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 verbalizes how to size-up different padlock.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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Instructor Curriculum Skill Evaluation Sheet

SKILL SHEET 12-3		Heavy-Duty Padlocks with a Duckbill Lock Breaker	
OBJECTIVE:		NFPA 1001, 4.3.4	FEH Chapter: 12
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Duckbill Lock Breaker • PPE • Heavy Duty Padlock • Flat Head Axe or Maul 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will force a heavy-duty padlock using a duckbill lock breaker.	
<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 a duckbill lock breaker, insert the bill into the opening of the lock and drive it in with a maul or flat-head axe.		
	The bill will force the lock open. Be sure to put the duckbill into the lock bow so the wedge will pull the lock open, not make it wider. If put in sideways, the duckbill may get jammed and may not open the lock.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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Instructor Curriculum Skill Evaluation Sheet

SKILL SHEET 12-4		Regular Padlock using a Halligan Tool and Flat-Head Axe	
OBJECTIVE:		NFPA 1001, 4.3.4	FEH Chapter: 12
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Halligan Tool • PPE • Padlock • Flat Head Axe or Maul 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will force a regular padlock using a Halligan tool and a flat-head axe.	
<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
	Insert the pike end of the Halligan in the opening and drive it through with flat-head axe.		
	Or use the fork end of the Halligan tool around the staple and twist.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 12-7		Forcing Inward-Opening Door: Two Firefighters	
OBJECTIVE:		NFPA 1001, 4.3.4	FEH Chapter: 12
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Halligan Tool • Flat head axe • PPE 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Student will demonstrate forcing an inward-opening door.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Size up the situation and door.		
	Shock the door by striking the door with the adze end of the Halligan on the top, middle, and bottom of the door to loosen up the door and locate locks.		
	To Gap, place the adze end of the Halligan 6 in. above or below the lock. Push up or pull down on the tool depending on the location of the pike.		
	Place the fork end of the Halligan into the gap with the bevel end toward the door frame.		
	The axe firefighter, on the command of the Halligan firefighter, strikes the Halligan (stating Hit). The axe is not swung, but rather it is used with the shoulder and stiff arm, a jab.		
	While the tool is being driven in, the Halligan firefighter should bring the Halligan back to perpendicular and at the same time keep pressure on the tool.		
	When the Halligan firefighter see the fork is past the door stop, they will call for the axe firefighter to "drive"		
	When the Halligan firefighter see that the fork is sufficiently past the interior door jamb, they will call "Stop".		
	Then both firefighters should apply pressure toward the door. Once the door opens, the door must be controlled.		
EVALUATOR COMMENTS:			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 12-8		Forcing Inward-Opening Door: One Firefighter	
OBJECTIVE:		NFPA 1001, 4.3.4	FEH Chapter: 12
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Halligan Tool • Flat head axe • PPE 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		Student will demonstrate forcing an inward-opening door.	
<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
	Size up the situation and door.		
	Shock the door by striking the door with the adze end of the Halligan on the top, middle, and bottom of the door to loosen up the door and locate locks.		
	To Gap, place the adze end of the Halligan 6 in. above or below the lock. Push up or pull down on the tool depending on the location of the pike.		
	Place the fork end of the Halligan into the gap with the bevel end toward the door frame.		
	Holding with one hand hit the adze with the flat head of the axe until the folks are past the door jamb		
	Another way is swing the pike end of the Halligan tool into door jamb, behind the door stop.		
	Apply pressure toward the door. Once the door opens, the door must be controlled.		
EVALUATOR COMMENTS:			
[ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 12-10	Through-the-Lock Technique		
OBJECTIVE:	NFPA 1001, 4.3.4	FEH Chapter: 12	
CANDIDATE NAME/NUMBER:		No.:	
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]	<ul style="list-style-type: none"> Flat Head Axe A-Tool, Rex Tool, or K-Tool Key Tool PPE 		
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>	Student will demonstrate through-the-lock forcible entry.		
CRITERIA:	NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]		
Critical?		Pass	Fail
	Using an A-tool, a Rex tool, or a K-tool, place the tool over the cylinder and tap it down to get a good bite on the lock.		
	Pull the tool to pry the cylinder out of the lock. This method will vary depending on the initial tool used.		
	After the lock is removed, use the appropriate key tool to open the lock.		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 12-11		Force An Outward-Opening Door	
OBJECTIVE:		NFPA 1001, 4.3.4	FEH Chapter: 12
CANDIDATE NAME/NUMBER:			No.:
TEST DATE/TIME			
EQUIPMENT REQUIRED: [Add local requirements if needed]		<ul style="list-style-type: none"> • Flat Head Axe • Halligan Tool • PPE 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS: <i>NOTE: The evaluator will read the following exactly as it is written to the candidate</i>		Student will force an outward-opening door.	
CRITERIA:		NOTE: Based on material from the Skill Drill Instructor Guides [ADDITIONAL LINES FOR AHJ TO ADD OTHER MATERIAL]	
Critical?		Pass	Fail
	Size up the situation and door.		
	Shock the door by striking the door with the adze end of the Halligan on the top, middle, and bottom of the door to loosen up the door and locate locks.		
	To Gap, place the adze end of the Halligan 6 in. above or below the lock. Push up or pull down on the tool depending on the location of the pike.		
	Place the fork end of the Halligan into the gap with the bevel end toward the door.		
	The axe firefighter, on the command of the Halligan firefighter, strikes the Halligan (stating Hit). The axe is not swung, but rather it is used with the shoulder and stiff arm, a jab.		
	While the tool is being driven in, the Halligan firefighter should bring the Halligan back to perpendicular and at the same time keep pressure on the tool.		
	When the Halligan firefighter see that the fork is sufficiently past the interior door, they will call "Stop".		
	Then both firefighters should apply pressure toward the wall. Once the door opens, the door must be controlled.		
EVALUATOR COMMENTS:			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-25		Starting 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:		Candidate will start a chain 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
	Place saw into the ground and hold with one foot. make sure brake is on and the off button is on.		
	Choke the saw and pull the start cord until the saw starts		
	Close the choke and with both hands on the saw release the brake and increase the throttle.		
	Lock the brake and move to the cutting surface		
	See skill drill 11-26 for cutting operation		
EVALUATOR COMMENTS: [ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

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SKILL SHEET 11-26		Operating 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 • Material to cut 	
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 saw should be brought up to full rpm prior to engage the material, then plunge the chain into the material to start the cut line.		
	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 material. The saw can pivot on the guard as you bring the saw up to full rpm and then rotate the tip into the material.		
	Once the saw has plunged through the material cut back towards 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 11-15		Rotary 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 • PPE 	
EVALUATOR INSTRUCTIONS			
CANDIDATE INSTRUCTIONS:		The student will demonstrate the appropriate steps to cold start a Rotary 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
	Check that the stop or kill switch is pushed in or set in the off position.		
	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, ensure the blade has stopped rotating and lift the saw upward toward the cutting task.		
EVALUATOR COMMENTS:			
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			

FIRE ENGINEERING'S HANDBOOK FOR FIREFIGHTER I & II
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SKILL SHEET 11-17		Rotary Saw Operation – Simple Saw Starting	
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 	
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 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:			

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

SKILL SHEET 11-20		Cutting Metal with an Aluminum Oxide Blade or Brick with a Silicone 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 Silicone 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 encounters 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.		
	Back the blade off		
	Once the groove is created, the saw can be brought up to full rpm to complete the cut.		
	Remember there is no brake devise on this sw. to stop the blade lightly touch the blade to the metal to slow the blade		
EVALUATOR COMMENTS:			
		[ANY COMMENTS PRO OR CON REGARDING WHAT THE STUDENT ACCOMPLISHED]	
EVALUATOR SIGNATURE:			
STUDENT SIGNATURE:			