



Missouri Division of Fire Safety
Fire Fighter I
Practical Skill Book

NFPA 1001-2019



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

The Fire Fighter I course is predominantly a "hands-on" program, the training of the skills learned during the course is as important as the knowledge components. The successful completion of every skill sheet in this booklet is necessary to fulfill the requirements of each Job Performance Requirement (JPR) listed in NFPA 1001-2019, Chapter 4.

Each skill in this booklet has a list of individual steps the student must be competent in doing. Once the student is competent in all of the steps of the skill, by performing the particular skill on their own without intervention from the instructor or other students, they have achieved proficiency in the particular skill and have completed that particular JPR. Multiple demonstrations of proficiency leads to mastery. The Division, through the practical skill exam process will verify the mastery of the JPRs by the students.

Meeting proficiency of all the practical skills contained in this booklet is required for any student to test for Missouri Division of Fire Safety Fire Fighter I certification. Students must be prepared for any of the practical skills contained in this booklet to be on a specific certification exam. Division of Fire Safety Practical Skills Certification Exams are designed so that there is the potential for any of the practical skills to be tested. Every skill on any practical skills test will contain the same components and steps as outlined in this booklet.

It is the responsibility of every Fire Fighter I Course Lead Instructor to ensure that each student has attained proficiency of every skill. The Lead Instructor must verify that each skill sheet in this booklet has been completed by the student and signed by the skill instructor, indicating the student has either attained proficiency of the JPR or has not. Any student that cannot attain proficiency of all skills will be considered as not passing the course.

SAFETY NOTICE

Each student shall perform each skill requirement in a safe manner. Any student that does not perform in a safe manner during the particular skill is deemed as not meeting the proficiency of the particular JPR. An instructor shall not sign-off that the student has met proficiency of the skill, if the student has not safely performed the requirements of the skill.

Each student's Skills Book contains a "Training Record". **This form (or other preapproved documentation) must be completed and signed by the instructor and be submitted to the Missouri Division of Fire Safety prior to the date of the End of Course Practical Skills Certification exam. Only those individuals whose forms have been received by the Division of Fire Safety will be eligible to take the End of Course Practical Skills Certification exam.**



Table of Contents

Student Training Record	3
Chapter 1 Fire Fighter Safety	4
Chapter 2 Communications.....	8
Chapter 5 Fire Fighter Personal Protective Equipment.....	12
Chapter 6 Portable Fire Extinguishers	19
Chapter 7 Ropes and Knots.....	22
Chapter 8 Ground Ladders.....	28
Chapter 9 Forcible Entry	38
Chapter 10 Structural Search and Rescue	44
Chapter 11 Tactical Ventilation	56
Chapter 12 Fire Hose.....	64
Chapter 13 Hose Operations and Hose Streams	72
Chapter 14 Fire Suppression	88
Chapter 15 Overhaul, Property Conservation and Scene Preservation	96



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Student Training Record

To be completed by the student:

Name: _____ Last 4 SSN: _____

Address: _____ Date of Birth: _____

City: _____ State: _____ Zip: _____

Email Address: _____

Department/Agency: _____

Course Location: _____ Course Dates: _____

This Training Record must be completed for each student completing a Division of Fire Safety approved Fire Fighter I Course. Failure to complete and submit this form shall result in the individual completing such course to be ineligible for Fire Fighter I certification testing.

To be completed by the course Lead Instructor:

END OF COURSE EXAM	1 st attempt 70% min.	2 nd attempt 70% min.	Date
Fire Fighter I End of Course Test Score			
Has the student shown proficiency of all of the Fire Fighter I Practical Skills listed in this booklet?	<input type="checkbox"/> Yes		<input type="checkbox"/> NO

I hereby confirm that this individual has successfully completed the Fire Fighter I course as registered through me by obtaining a passing score on the end of course exam and achieving proficiency of all skills listed in this booklet.

Lead Instructor (Print name) _____

Lead Instructor Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 1 - Fire Fighter Safety

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.3.2* Respond on apparatus to an emergency scene, given personal protective clothing and other necessary PPE, so that the apparatus is correctly mounted and dismounted, seat belts are used while the vehicle is in motion, and other personal protective equipment is correctly used.

4.3.3* Establish and operate in work areas at emergency scenes, given protective equipment, traffic and scene control devices, structure fire and roadway emergency scenes, traffic hazards and downed electrical wires, photovoltaic power systems, battery storage systems, an assignment, and SOPs, so that procedures are followed, protective equipment is worn, protected work areas are established as directed using traffic and scene control devices, and the fire fighter performs assigned tasks only in established, protected work areas.

4.3.17 Operate emergency scene lighting, given fire service lighting equipment, power supply, and an assignment, so that emergency scene lighting equipment is operated within the manufacturer's listed safety precautions.



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Fighter Safety – NFPA 1001-2019, 4.3.2

Skill Sheet #1

Mounting and Dismounting an Apparatus

Skill Objectives: The student, provided a fire department apparatus and personal protective equipment (excluding SCBA), shall properly mount the apparatus and don all safety devices used during vehicle movement while observing all safety rules.

Skill Instructions: The instructor shall have the student don all personal protective equipment, mount the apparatus, and don all safety devices and dismount the vehicle. The student shall perform this objective as a passenger of the vehicle and not the driver.

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Dons appropriate personal protective equipment	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Mounts apparatus using handrails and steps	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Sits in a seat within the cab, and fasten safety belt	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Remains seated with safety belt fastened while vehicle is in motion	<input type="checkbox"/> Y <input type="checkbox"/> N
5. When vehicle comes to a complete stop, unfastens safety belt and prepare to dismount	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Slightly opens door and looks for traffic from both directions	<input type="checkbox"/> Y <input type="checkbox"/> N
7. If possible, dismounts on the side opposite of traffic	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Dismounts using handrails and steps	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Ensures door is closed	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ **Date:** _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Fighter Safety – NFPA 1001-2019, 4.3.17

Skill Sheet #2

Deploy a Power Source and Lighting Equipment

Skill Objective: The student, given a power source, lights, cords, and connectors shall set up emergency lighting for fire ground operation and identify at least 3 potential safety hazards when working with electricity on the fire ground.

Skill Instructions: The student, given a power source (portable power plant, apparatus mounted power plant, or apparatus electrical system), lights, cords, and connectors shall illuminate an area designated by the evaluator. The student shall demonstrate the steps necessary to illuminate the area with the given equipment and will verbalize potential hazards.

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Ensures power source is ready for operation (checks fuel and oil if portable or mounted power plant; or ensures apparatus electric system is engaged).	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Locates the power plant in a remote and well-ventilated position (if applicable)	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Arranges power cords neatly as to minimize someone accidentally tripping over them	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Starts the power-plant without difficulty (if applicable)	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Ensures portable lights are plugged in and positioned to best illuminate the area	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Resets ground-fault interrupter (GFI) devices as necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Turns on lights and adjusts angle as necessary to best illuminate the area	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Shuts equipment off properly	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Allows equipment to cool before returning to service or verbally explained the need to do so	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Cleans and refuels equipment as necessary or verbally explained the need to do so	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Identifies at least 3 potential safety hazards when working with electricity on the fire ground	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ **Date:** _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Fighter Safety – NFPA 1001-2019, 4.3.3
Skill Sheet #3

Procedures for Establishing and Operating in Work Areas

Skill Objectives: The student, given a fire apparatus and various traffic and scene control devices shall properly demonstrate the correct procedures for establishing and operating at an emergency scene.

Skill Instructions: The instructor shall have the student establish a work area. After establishing a work area the instructor shall give the student an assignment to be completed in the work area.

Student Name: _____

<u>Items to be checked</u>	<u>Competency Achieved</u>
<i>If the student:</i>	
1. Appropriate personal protective equipment, including reflective vest is properly donned	<input type="checkbox"/> Y <input type="checkbox"/> N
2. States the apparatus should be parked at an angle to protect work area	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Uses appropriate scene control devices to establish safe work area	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Deploys traffic cones upstream from the blocking vehicle, tapered at an angle from the blocking vehicle	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Faces the traffic and stands on or near the roadway shoulder	<input type="checkbox"/> Y <input type="checkbox"/> N
6. States where an emergency escape route is planned	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Uses various traffic control devices and methods to direct traffic	<input type="checkbox"/> Y <input type="checkbox"/> N
8. After completion of tasks, removes traffic and scene control devices and stores in proper location.	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 2 - Communications

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.2.1* Initiate the response to a reported emergency, given the report of an emergency, fire department SOPs, and communications equipment, so that all necessary information is obtained, communications equipment is operated correctly, and the information is relayed promptly and accurately to the dispatch center.

4.2.2 Receive a telephone call, given a fire department phone, so that procedures for answering the phone are used and the caller's information is relayed.

4.2.3 Transmit and receive messages via the fire department radio, given a fire department radio and operating procedures, so that the information is accurate, complete, clear, and relayed within the time established by the AHJ.



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Communications – NFPA 1001-2019, 4.2.1

Skill Sheet #4

Initiating a Response to an Emergency

Skill Objectives: The student shall demonstrate the procedures for receiving an alarm for a report of an emergency from the public and demonstrate how to initiate the response to a reported emergency, given the report of an emergency, fire department SOPs, paper, writing instrument and communications equipment, so that all necessary information is obtained, communications equipment is operated correctly, and the information is relayed promptly and accurately to the dispatch center.

Skill Instructions: The instructor shall have the student receive a phone call from an individual reporting an emergency. The student shall take the information and initiate a response.

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Answers call and identifies department, station and who they are	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Records information about the emergency	
a. Type of emergency	
b. Location of emergency	<input type="checkbox"/> Y <input type="checkbox"/> N
c. Number and location of people involved	
d. Caller's name, location and phone number	
3. Provides life safety directions if the caller is at immediate risk	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Transfer information to the dispatch center, responding units, or personnel by local SOPs	
a. Incident information	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Confirm that units are notified and on assignment	<input type="checkbox"/> Y <input type="checkbox"/> N
6. End the phone call per local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ **Date:** _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Communications – NFPA 1001-2019, 4.2.2

Skill Sheet #5

Receiving a Non-Emergency Phone Call

Skill Objectives: The student shall demonstrate the procedures for receiving a non-emergency telephone call, given a fire department phone, so that proper procedures for answering the phone are used and the caller's information is relayed.

Skill Instructions: The instructor shall have the student receive a non-emergency phone call from an individual. The student shall take the information and take the message or transfer the call.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Answers call and identifies department, station and who they are	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Records caller's information and message i) Date and time recorded ii) Caller's name and number recorded iii) Message taken iv) Name of individual taking message	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Provide the caller with information, if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Post the message or transfer call to appropriate person	<input type="checkbox"/> Y <input type="checkbox"/> N
5. End the phone call per local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Communications – NFPA 1001-2019, 4.2.3

Skill Sheet #6

Transmitting and Receiving Radio Messages

Skill Objective: The candidate, given a mobile or portable radio, shall transmit and receive messages via the fire department radio, given a fire department radio and operating procedures, so that the information is accurate, complete, clear, and relayed.

Skill Instructions: The student shall demonstrate transmitting a radio message. If necessary, the demonstration may be conducted with the radio in the "OFF" position so that no message goes over the air. The student will demonstrate procedures used while calling for emergency traffic after the completion of Chapter 10 to be included with the "Calling a Mayday" skill.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Verifies the radio is on the correct channel	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Monitor's radio traffic until the channel is clear	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Holds the microphone within 1 to 2 inches of the mouth when transmitting	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Depresses the transmit button, holding down until finished with transmission	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Speaks calmly, clearly and distinctly	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Transmits a routine traffic message using department codes and local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 5 – Personal Protective Equipment

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.1.2 The ability to don personal protective clothing, doff personal protective clothing, perform field reduction of contaminants and prepare for reuse, hoist tools and equipment using ropes and the correct knot, and locate information in departmental documents and standard or code materials.

4.3.1* Use self-contained breathing apparatus (SCBA) during emergency operations, given SCBA and other PPE, so that the SCBA is correctly donned, the SCBA is correctly worn, controlled breathing techniques are used, emergency procedures are enacted if the SCBA fails, all low-air warnings are recognized, respiratory protection is not intentionally compromised, and hazardous areas are exited prior to air depletion.

4.5.1* Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.



Personal Protective Equipment – NFPA 1001-2019, 4.1.2

Skill Sheet #7

Personal Protective Clothing

Skill Objective: The student shall properly don all personal protective equipment, excluding SCBA, *in 60 seconds or less*. Successful donning of personal protective equipment should be evaluated after the 60-second time period with a focus on the final status of the personal protective equipment not necessarily in the order the clothing was donned.

Skill Instructions: The student shall demonstrate donning personal protective clothing. This skill must be completed in 60 seconds or less.

Student Name: _____

<u>Items to be checked</u>	<u>Competency Achieved</u>
<i>If the student:</i>	
1. Dons pants with boots properly, including suspenders	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Dons hood	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Dons coat-including storm flap, collar, securing devices	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Dons helmet-including straps	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Dons gloves	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Has properly donned all protective clothing within 60 seconds , with all clothing in its proper location	<input type="checkbox"/> Y <input type="checkbox"/> N
7. States the need to perform field reduction of contaminant and the local AHJ procedure for conducting field decontamination	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Properly doffs all protective clothing and inspects all components for damage	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Verbalize the local AHJ procedure for cleaning and drying PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Verbalize the local AHJ procedure for removing and reporting damaged PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Place PPE in a ready state	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



Personal Protective Equipment – NFPA 1001-2019, 4.3.1

Skill Sheet #8

Self-Contained Breathing Apparatus (SCBA)

Skill Objectives: The student, wearing full protective clothing with the exception of gloves, hood and helmet, shall properly don a SCBA, *in 60 seconds or less*. The candidate shall use any SCBA units available to that fire department, academy or school. Successful donning of personal protective equipment should be evaluated after the 60-second time period with a focus on the final status of the personal protective equipment not necessarily in the order the clothing/equipment was donned.

Skill Instructions: The student shall demonstrate an approved method for donning an SCBA. This skill must be completed in 60 seconds or less. *Note: During practical skill testing, the donning of an SCBA while seated in an apparatus is not an approved testing skill.*

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Checks the air cylinder to visualize the amount of air in the bottle	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Opens the cylinder valve ALL THE WAY	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Choosing an approved donning method, places the unit securely on their back	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Adjusts both shoulder straps	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Adjusts the waist strap	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Dons the face-piece, equally tightening all straps	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Checks the face-piece seal	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Checks the exhalation valve	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Dons the protective hood and helmet securely	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Ensures the mainline is fully open (if applicable)	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Has donned ALL protective clothing properly (gloves, hood, ear flaps, and helmet) in 60 seconds or less.	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Experienced NO equipment malfunction	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Personal Protective Equipment – NFPA 1001-2019, 4.3.1

***Skill Sheet #9
SCBA Cylinder Change***

Skill Objective: The student, given full personal protective equipment, shall correctly demonstrate the proper procedure for changing an empty cylinder.

Skill Instructions: Student shall change out an empty SCBA cylinder with a full SCBA cylinder while the SCBA pack is on a firm surface or on the back of a fire fighter.

Student Name: _____

<u>Items to be checked</u>	<u>Competency Achieved</u>
<i>If the student:</i>	
1. Locates a full cylinder	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Closes the empty cylinder valve	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Bleeds off pressure	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Disconnects the high pressure hose from the cylinder	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Releases the cylinder securing device and removes empty cylinder from harness	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Inspect the full cylinder's valve opening and high-pressure hose fitting for debris	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Installs full cylinder into the harness assembly and secures it in place	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Checks the "O" ring in the high pressure hose connection (if applicable)	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Connects the high pressure hose to the cylinder	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Slowly opens the cylinder and checks the operation of the gauges	<input type="checkbox"/> Y <input type="checkbox"/> N
11. If changing cylinder on a fire fighter, states the amount on the cylinder gauge to the fire fighter	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



Personal Protective Equipment – NFPA 1001-2019, 4.3.1

Skill Sheet #10
Routine SCBA Inspection

Skill Objectives: The student shall perform an inspection of a SCBA unit as if it were a daily or routinely scheduled inspection. The student shall use any SCBA units available to that fire department.

Skill Instructions: The student shall demonstrate daily and periodic inspection, cleaning and sanitizing of the unit to assure the SCBA is ready for use.

Student Name: _____

<u>Items to be checked</u>	<u>Competency Achieved</u>
<i>If the student:</i>	
1. Checks all components for cleanliness and physical, thermal, and chemical damage	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Ensure the air cylinder has full pressure (approximately 90% of cylinder capacity)	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Checks hydrostatic test date and verbalizes when it is due to be tested	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Turn the cylinder valve on fully and verify pressure readings on the tank and regulator gauges are within 100 psi	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Dons the facepiece and checks the facepiece seal	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Checks the exhalation valve (if applicable)	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Attaches the regulator into the facepiece and ensure the mainline valve fully open (if applicable)	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Checks for proper operation of heads-up display (if applicable)	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Checks all hose connections are tight and free of leaks	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Checks for adequate, comfortable air flow	<input type="checkbox"/> Y <input type="checkbox"/> N
11. If changing cylinder on a fire fighter, states the amount on the cylinder gauge to the fire fighter	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Operates bypass valve operation	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Checks operation of PASS device	<input type="checkbox"/> Y <input type="checkbox"/> N
14. Turns unit off and bleeds the high pressure hose slowly	<input type="checkbox"/> Y <input type="checkbox"/> N
15. Checks for operation of low pressure alarm when bleeding the air line	<input type="checkbox"/> Y <input type="checkbox"/> N
16. Returns all straps, valves, and components back to a ready state	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



Personal Protective Equipment – NFPA 1001-2019, 4.5.1

Skill Sheet #11
Refilling SCBA Cylinder

Skill Objectives: The student shall demonstrate the proper procedures for refilling an SCBA cylinder. The student shall use any SCBA units available to that fire department. *NOTE: For the safety of personnel and equipment, any conflict between the items listed for this skill and the specific operational guidelines stipulated by the cascade manufacturer should default to the manufacturer’s guidelines.*

Skill Instructions: The student shall demonstrate recharging a SCBA cylinder.

Student Name: _____

<u>Items to be checked</u>	<u>Competency Achieved</u>
<i>If the student:</i>	
1. Checks the hydrostatic test date and approved maximum DOT pressure	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Inspects cylinder for visible damage and removes from service if indicated by AHJ	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Places SCBA cylinder in charging station	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Connects charging hose from cascade system to SCBA cylinder	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Opens the SCBA valve	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Compares gauge readings	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Opens valve of cascade cylinder with the lowest pressure but more than the cylinder	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Slowly charges SCBA cylinder to insure there is no overheating of cylinder	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Allows pressures to equalize between both cylinders and closes cascade cylinder valve	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Opens valve on cascade cylinder with the next highest pressure	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Repeats steps 7, 8, 9, and 10 until the SCBA cylinder is full to appropriate pressure	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Closes cascade cylinder valve and SCBA cylinder valve	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Bleeds pressure from cascade fill line and disconnects fill hose	<input type="checkbox"/> Y <input type="checkbox"/> N
14. Removes SCBA cylinder from charging station	<input type="checkbox"/> Y <input type="checkbox"/> N
15. Locates SCBA records in department documents and records refilling information	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor’s Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Personal Protective Equipment – NFPA 1001-2019, 4.5.1

Skill Sheet #12

SCBA Cleaning Procedures

Skill Objectives: The student shall demonstrate the proper procedures for cleaning the parts of self-contained breathing apparatus. The student shall use any SCBA units available to that fire department.

Skill Instructions: The student shall demonstrate cleaning the parts of a SCBA unit.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Disassembles all components of the SCBA	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Cleans the facepiece with a mild cleaner and rinses completely	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Applies an approved disinfectant to the facepiece and rinses completely	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Dries with lint-free cloth or air dries components	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Cleans and completely rinses the pressure hoses	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Thoroughly cleans and rinses the cylinder	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Cleans harness assembly according to manufactures specifications	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 6 – Portable Fire Extinguishers

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.3.16* Extinguish incipient Class A, Class B, and Class C fires, given a selection of portable fire extinguishers, so that the correct extinguisher is chosen, the fire is completely extinguished, and correct extinguisher-handling techniques are followed.



Portable Fire Extinguisher – NFPA 1001-2019, 4.3.16

Skill Sheet #13

Extinguish Class A Fire with a Portable Fire Extinguisher

Skill Objective: The student, wearing personal protective equipment and given a Class A fire and a selection of portable fire extinguishers, shall select the appropriate portable fire extinguisher for the class of fire and fully extinguish the fire.

Skill Instructions: The instructor should secure an area suitable for igniting and extinguishing Class A fires, Class A fuels, using portable fire extinguishers. All fire extinguisher evolutions for this skill evaluation shall meet the requirements of NFPA 1403, *Standard on Live Fire Training Evolutions*. After the instructor has ignited the fire and has determined the conditions are safe, the student will be instructed to select the appropriate fire extinguisher for the given fire and demonstrate the ability to extinguish the fire.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Wears all required personal protective equipment	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Correctly identifies the class of fire and selects suitable extinguisher for the class	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Verifies extinguisher is fully charged	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Properly activates the extinguisher	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Tests operation of the extinguisher by a brief discharge of agent	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Approaches to an effective distance for discharge of the selected extinguisher	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Aims nozzle at the base of the fire	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Discharges extinguishing agent on the base of the fire and sweeps over the fire area	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Advances on the remaining burning material while extinguishing hot spots	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Ensures extinguishment of the fire and checks for remaining hot spots	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Backs away to a safe distance once the fire is extinguished and/or the extinguisher is depleted	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Portable Fire Extinguisher – NFPA 1001-2019, 4.3.16

Skill Sheet #14

Extinguish Class B/C Fire with a Portable Fire Extinguisher

Skill Objective: The student, wearing personal protective equipment and given a Class B/C fire and a selection of portable fire extinguishers, shall select the appropriate portable fire extinguisher for the class of fire and fully extinguish the fire.

Skill Instructions: The instructor should secure an area suitable for igniting and extinguishing Class B/ C fires, Class B/C fuels, and portable fire extinguishers. All fire extinguisher evolutions for this skill evaluation shall meet the requirements of NFPA 1403, Standard on Live Fire Training Evolutions. After the instructor has ignited the fire and has determined the conditions are safe, the student will be instructed to select the appropriate fire extinguisher for the given fire and demonstrate the ability to extinguish the fire.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows 1-11 detailing fire extinguishing steps.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 7 – Ropes and Knots

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.1.2 The ability to don personal protective clothing, doff personal protective clothing, perform field reduction of contaminants and prepare for reuse, hoist tools and equipment using ropes and the correct knot, and locate information in departmental documents and standard or code materials.

4.3.20 Tie a knot appropriate for hoisting tools, given PPE, tools, ropes, and an assignment, so that the knots used are appropriate for hoisting tools securely and as directed.

4.5.1* Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.



Ropes and Knots – NFPA 1001-2019, 4.1.2, 4.3.20

Skill Sheet #15

Ropes and Knots

Skill Objectives: The student, given the proper rope(s) shall demonstrate tying a water knot, overhand safety, and a figure eight on a bight within the designated times.

Skill Instructions: The student will select a type and length of rope which will adequately meet the provisions of this skill. Because of various sequential steps in accomplishing a finished knot, the instructor will primarily evaluate the finished product for accurateness compared to the Essentials manual. The completed knot shall be identical to the illustrations found in the reference manual.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Water Knot with safety	
a. Forms the water knot with a safety	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Completes the water knot within 2 minutes	<input type="checkbox"/> Y <input type="checkbox"/> N
c. States that the water knot is used to join two pieces of webbing together or create a closed loop	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Overhand Safety	
a. Forms the overhand safety	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Completes the overhand safety within 2 minutes	<input type="checkbox"/> Y <input type="checkbox"/> N
c. State the overhand safety knot is used to prevent the primary knot from failing	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Figure Eight on a Bight with Safety	
a. Forms the figure eight on a bight with a safety	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Completes the figure eight on a bight within 2 minutes	<input type="checkbox"/> Y <input type="checkbox"/> N
c. States the figure eight on a bight is used to when a closed loop is needed to connect the rope to a piece of hardware.	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



Ropes and Knots – NFPA 1001-2019, 4.1.2, 4.3.20

Skill Sheet #16

Ropes and Knots

Skill Objectives: The student, given the proper rope(s) shall demonstrate tying a figure of eight, clove hitch around an object, and figure of eight follow through with a safety within the designated times.

Skill Instructions: The student will select a type and length of rope which will adequately meet the provisions of this skill. Because of various sequential steps in accomplishing a finished knot, the instructor will primarily evaluate the finished product for accurateness compared to the Essentials manual. The completed knot shall be identical to the illustrations found in the reference manual.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Figure Eight	
a. Forms the figure eight	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Completes the figure eight within 2 minutes	<input type="checkbox"/> Y <input type="checkbox"/> N
c. States that the figure eight knot is foundation of the figure eight family and is used as a stopper knot	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Clove Hitch around an object with a safety	
a. Forms the clove hitch with safety around an object	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Completes the clove hitch within 2 minutes	<input type="checkbox"/> Y <input type="checkbox"/> N
c. State the clove hitch is used to attach a rope to an object such as a pole, hose or other equipment	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Figure Eight Follow Through with a safety around an object	
a. Ties a loose figure eight	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Completes the figure eight follow through with safety around an object within 2 minutes	<input type="checkbox"/> Y <input type="checkbox"/> N
c. States the figure eight follow through is used when tying around a fixed object	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____

Ropes and Knots – NFPA 1001-2019, 4.1.2, 4.3.20



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ropes and Knots – NFPA 1001-2019, 4.1.2, 4.3.20

Skill Sheet #17

Hoisting Equipment

Skill Objective: The student, given necessary equipment and rope, will tie a knot appropriate to hoist a tool or equipment to a height of at least 12 feet. All of the objects listed are to be properly hoisted.

Skill Instructions: Provide the student a tool or fire department equipment and adequate rope to meet the requirements of this skill. With the student at ground level, have them use an appropriate knot(s) to secure the tool. A tagline should be attached to the object for better control and the object hoisted a minimum of 12 feet.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. General Skill - Must be completed for each type of equipment hoisted	
a. Ties a secured knot appropriate for that tool	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Utilizes an overhand safety knot for additional support	<input type="checkbox"/> Y <input type="checkbox"/> N
c. Wears appropriate protective equipment (Helmet and gloves-minimum while equipment is being hoisted)	<input type="checkbox"/> Y <input type="checkbox"/> N
d. Tool is hoisted to entire height without complication (knot/s stays tied) and without compromising safety	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Hoisting a Ladder	
a. Forms a figure eight on a bight with a large loop	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Slides the loop under the ladder and between the rungs approximately one-third of the length from the ladder tip	<input type="checkbox"/> Y <input type="checkbox"/> N
c. Slips the loop over the tip of the ladder and removes all the slack from the loop	<input type="checkbox"/> Y <input type="checkbox"/> N
d. Places the knot under the ladder for hoisting	<input type="checkbox"/> Y <input type="checkbox"/> N
e. Attaches a tag line to the bottom rung of the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
f. Uses tag line to guide the ladder while it is being hoisted	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Hoisting an Axe	
a. Forms a clove hitch and secures it on the handle near the head of the axe	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Loops the working end of the rope around the axe head and back up the handle	<input type="checkbox"/> Y <input type="checkbox"/> N
c. Places two half-hitches around the axe handle	<input type="checkbox"/> Y <input type="checkbox"/> N
d. Uses the rope as a tag line to guide the axe while it is being hoisted	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ropes and Knots – NFPA 1001-2019, 4.1.2, 4.3.20

Skill Sheet #17
Hoisting Equipment

Continued from previous page

4. Hoisting a Dry Hose Line	
a. Folds the nozzle and the end of the hose back over the rest of the hose (4 to 5 feet)	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Ties the nozzle and the hose together using a clove hitch and safety	<input type="checkbox"/> Y <input type="checkbox"/> N
c. Ties a half hitch around the hose approximately one foot from the loop end	<input type="checkbox"/> Y <input type="checkbox"/> N
d. Uses the hose as a tag line to guide the hose line while it is being hoisted	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Hoisting a Power Saw	
a. Ties the rope to the saw handle using a figure eight follow through	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Attaches a tag line to the saw handle or uses the running end of the hoisting rope as a tag line	<input type="checkbox"/> Y <input type="checkbox"/> N
c. Uses tag line to guide the saw while it is being hoisted	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ropes and Knots – NFPA 1001-2019, 4.5.1

Skill Sheet #18

Inspecting, Cleaning and Storing Rope

Skill Objective: The student, given a fire service rope, shall demonstrate the technique of inspecting, cleaning, and storing the rope in the approved fashion his or her department utilizes.

Skill Instructions: The instructor shall provide the student with a rope to be inspected for damage or abuse. After inspecting the entire rope the candidate shall clean the rope using proper tools and cleaning solution. The student should then demonstrate the procedure for drying the rope. Finally the student shall demonstrate proper preparation for storage based on what method his or her department uses (rope bag, coiling, etc.)

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Examines the entire surface of the rope for cuts, abrasions, stains, chemical damage, odor or fraying	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Examines the inner component by feeling for lumps, depressions, or soft spots	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Verbally explains that he/she would tag and remove from service any severely damaged rope and records use in rope log	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Verbally explains how the rope would be washed using water and mild detergent or per manufacturer’s recommendations and thoroughly rinsing is required	<input type="checkbox"/> Y <input type="checkbox"/> N
5. States that after cleaning he or she would allow the rope to air dry completely	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Performs an additional inspection after drying	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Properly stores the rope using a coil method or rope bag storage (Note: coiling is not necessary in a rope bag)	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor’s Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 8 – Ground Ladders

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.3.6* Set up, mount, ascend, dismount, and descend ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished.

4.3.9* Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety — including respiratory protection — is not compromised.

4.3.12 Perform vertical ventilation on a structure as part of a team, given an assignment, personal protective equipment, ground and roof ladders, and tools, so that ladders are positioned for ventilation, a specified opening is created, all ventilation barriers are removed, structural integrity is not compromised, products of combustion are released from the structure, and the team retreats from the area when ventilation is accomplished.

4.5.1 Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ground Ladders – NFPA 1001-2019, 4.3.6

Skill Sheet #19

One – Fire Fighter Ladder Carry and Raise (12’ Ladder minimum)

Skill Objectives: The student, given an appropriate ladder, and wearing all personal protective clothing, shall demonstrate a one-fire fighter ladder carry and raise it to a building.

Skill Instructions: The instructor shall have the student wear personal protective equipment (SCBA is optional). The student shall be provided with ladders that their fire department utilizes. The student shall use the proper lifting and carrying method to get the ladder to the desired location. The student shall perform a one-fire fighter beam method or flat method raise to the building wall and then lower it.

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Stand at a lifting point near the center of the ladder facing the butt end	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Kneel beside the ladder and grasp the ladder beam	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Place the ladder on the beam	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Position ladder on to the shoulder	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Stand while shouldering the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Position the ladder for carrying <ul style="list-style-type: none"> a. Secure the upper beam on the shoulder b. Lower the butt of the ladder slightly c. Steady the ladder with both hands 	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Carry the ladder toward the objective maintaining complete control of the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
<i>Raises and lowers the ladder from one of the two methods below</i>	
Beam Method	
8. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions	<input type="checkbox"/> Y <input type="checkbox"/> N
9. With the ladder beam still on your shoulder, lower one spur of the butt end to the ground approximately ¼ the usable height from the building	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Raise the ladder and rest both spurs on the ground	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Rotate the ladder until both beams are parallel to the building	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Place ladder against the building and adjust the ladder to an appropriate climbing angle	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



Ground Ladders – NFPA 1001-2019, 4.3.6

Skill Sheet #19

One – Fire Fighter Ladder Carry and Raise (12’ Ladder minimum)

Continued from previous page

13. Lower the ladder, reversing the raising procedure a. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions Lower the butt of the ladder slightly b. Place the butt end of the ladder against the building c. Lower the ladder by using the building to heel the ladder while lowering it d. Place it flat on the ground	<input type="checkbox"/> Y <input type="checkbox"/> N
Flat Method	
8. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Place the ladder flat on the ground perpendicular to the wall	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Slide the ladder so that both spurs are resting against the wall	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Position at the tip of the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Grasp the top rung or both beams of the ladder and lift	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Raise the ladder and place it flat against the building	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Place ladder against the building and adjust the ladder to an appropriate climbing angle	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Lower the ladder, reversing the raising procedure a. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions Lower the butt of the ladder slightly b. Place the butt end of the ladder against the building c. Lower the ladder by using the building to heel the ladder while lowering it d. Place it flat on the ground	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ground Ladders – NFPA 1001-2019, 4.3.6

Skill Sheet #20

Two – Fire Fighter Ladder Carry and Raise (24’ Extension Ladder minimum)

Skill Objectives: The student, working as a team of two, given an appropriate ladder, and wearing all personal protective clothing, shall demonstrate a two-fire fighter ladder carry.

Skill Instructions: The two students, working as a team, wearing all personal protective equipment (SCBA is optional), shall demonstrate communication to each other, the proper lifting and carrying methods to get the ladder to the desired location.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Low-Shoulder Method</u>	
1. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Stand at a lifting point near the ends of the ladder facing the butt end	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Kneel beside the ladder and grasp the ladder beam	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Place the ladder on the beam	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Communicate with each other what method of carrying to use and when to lift the ladder, positions ladder onto shoulder	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Communicating with each other, stand while shouldering the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Position the ladder for carrying <ul style="list-style-type: none"> a. Secure the upper beam on the shoulder b. Lower the butt of the ladder slightly c. Steady the ladder with both hands 	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Carry the ladder toward the objective maintaining complete control of the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
<i>Using the above carry method, raises and lowers the ladder from one of the two methods below</i>	
Beam Method	
9. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Fire Fighter closest to butt end, lower one spur of the butt end to the ground approximately ¼ the usable height from the building	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Fire Fighter closest to tip transition ladder’s bottom beam to shoulder	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Fire Fighter at butt end, place one foot on the lower beam at the butt end	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Fire Fighter at butt end, grasp the upper beam with hands apart and extend back as a counter balance	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



Ground Ladders – NFPA 1001-2019, 4.3.6

Skill Sheet #20

Two – Fire Fighter Ladder Carry and Raise (24’ Extension Ladder minimum)

Continued from previous page

14. Fire Fighter at tip, advance down the beam toward the butt end until ladder is vertical	<input type="checkbox"/> Y <input type="checkbox"/> N
15. Both fire fighters, stand on opposite sides of the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
16. Rotate the ladder until both beams are parallel to the building and the fly section is in the proper position	<input type="checkbox"/> Y <input type="checkbox"/> N
17. Fire fighter next to building, untie, grasp the halyard and extend the fly section to the desired elevation	<input type="checkbox"/> Y <input type="checkbox"/> N
18. Engage the ladder locks, place the ladder against the building while maintaining ladder balance	<input type="checkbox"/> Y <input type="checkbox"/> N
19. While supporting the ladder against the building, adjust the ladder to an appropriate climbing angle	<input type="checkbox"/> Y <input type="checkbox"/> N
20. Secure the halyard	<input type="checkbox"/> Y <input type="checkbox"/> N
21. Lower the ladder, reversing the raising procedure	
a. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions Lower the butt of the ladder slightly	
b. Lower the ladder by using a hand-under-under motion	
c. Place it flat on the ground	<input type="checkbox"/> Y <input type="checkbox"/> N
Flat Method	
9. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Both fire fighters place the ladder flat on the ground with the butt end perpendicular to and approximately ¼ the usable height from the building	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Fire Fighter closest to tip, lift the tip of the ladder and position underneath it.	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Fire Fighter at butt end, heel the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Fire Fighter at butt end, crouch to grasp a convenient rung or the beams with both hands and leans back	<input type="checkbox"/> Y <input type="checkbox"/> N
14. Fire Fighter at tip, advance down the ladder using hand over hand or sliding hands down the beam toward the butt end until ladder is vertical	<input type="checkbox"/> Y <input type="checkbox"/> N
15. Both fire fighters, stand on opposite sides of the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
16. Rotate the ladder until both beams are parallel to the building and the fly section is in the proper position	<input type="checkbox"/> Y <input type="checkbox"/> N
17. Fire fighter next to building, untie, grasp the halyard and extend the fly section to the desired elevation	<input type="checkbox"/> Y <input type="checkbox"/> N
18. Engage the ladder locks, place the ladder against the building while maintaining ladder balance	<input type="checkbox"/> Y <input type="checkbox"/> N

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MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ground Ladders – NFPA 1001-2019, 4.3.6

Skill Sheet #20

Two – Fire Fighter Ladder Carry and Raise (24’ Extension Ladder minimum)

Continued from previous page

19. While supporting the ladder against the building, adjust the ladder to an appropriate climbing angle	<input type="checkbox"/> Y <input type="checkbox"/> N
20. Secure the halyard	<input type="checkbox"/> Y <input type="checkbox"/> N
21. Lower the ladder, reversing the raising procedure d. Visually inspects the work area for solid, level footing and for overhead electrical wires and obstructions Lower the butt of the ladder slightly e. Lower the ladder by using a hand-under-under motion f. Place it flat on the ground	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ground Ladders – NFPA 1001-2019, 4.3.6

Skill Sheet #21

Securing Yourself to a Ladder and Deploying a Roof Ladder

Skill Objective: The student, wearing full personal protective equipment, and provided with the necessary equipment, shall properly secure a roof ladder on a pitched roof for firefighting operations.

Skill Instructions: The instructor shall set an appropriate ground ladder on a structure with a pitched roof. The student shall wear full personal protective equipment. The instructor shall have the student carry a roof ladder from the apparatus and deploy the ladder on the pitched roof. The instructor will also provide someone to heel the main ladder.

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Properly carries the roof ladder to the ladder placed at the structure	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Sets the roof ladder on the ground near the ladder to be ascended and opens the hooks	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Places the roof ladder up so that it rests against the other ladder and with the hooks facing outward	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Climbs the main ladder until his/her shoulder is about two rungs above the midpoint of the roof ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Reaches through the rungs of the roof ladder and hoists it onto his/her shoulder	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Climbs to the desired location to accomplish deploying the roof ladder, and uses a leg lock or life safety harness to lock into the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Places roof ladder on the roof with the hooks in the down position	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Pushes the roof ladder up the roof until the hooks go over the edge of the peak	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Pulls the ladder down so the hooks catch solidly over the peak	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Unlock from the ladder and descend the ladder in a controlled method	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ **Date:** _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ground Ladders – NFPA 1001-2019, 4.3.6, 4.3.9

Skill Sheet #22

Assist an Unconscious Victim Down a Ladder

Skill Objective: The student, wearing full protective equipment (SCBA optional) and provided with appropriate ladder and a victim (manikin or prop), shall bring a simulated unconscious person down the ladder from a height of at least 20 feet.

Skill Instructions: Have in place, a secured extension ladder of at least 24 feet. When the student ascends the ladder and reaches the victim, the victim shall be received from the interior crew by the student. The student shall then descend with the victim by using one of the methods described in the Essentials of Fire Fighting (on-the-knee method, cross-body method or modified cross-body method). The ladder butt should also be secured. **(NOTE: No live person shall be used as the victim.)**

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Climbs the ladder and positions to receive the victim	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Positions the victim facing the rescuer	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Maintain control of the victim by using one of the three methods listed above	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Descends the ladder one rung at a time while supporting the victim during descent	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Completes the descent in a controlled manner	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ ***Date:*** _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ground Ladders – NFPA 1001-2019, 4.3.6, 4.3.9

Skill Sheet #23

Assist a Conscious Victim Down a Ladder

Skill Objective: The student, wearing full protective equipment (SCBA optional) and provided with appropriate ladder and a victim, shall bring a conscious person down the ladder from a height of at least 20 feet.

Skill Instructions: Have in place, a secured extension ladder of at least 24 feet. When the student ascends the ladder and reaches the victim, the victim shall be received from the interior crew by the student. The student shall then descend with the victim. The ladder butt should also be secured.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Climbs the ladder and positions to receive the victim	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Positions the victim facing the ladder	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Maintain control of the victim by placing the forearms under the victim’s armpits and placing hands on the ladder beams	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Descends the ladder one rung at a time while supporting the victim during descent	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Completes the descent in a controlled manner	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor’s Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Ground Ladders – NFPA 1001-2019, 4.5.1

Skill Sheet #24

Cleaning, Inspecting and Maintaining a Ground Ladder

Skill Objective: The student, provided with an appropriate ladder, cleaning equipment and maintenance materials, shall demonstrate how to clean, inspect and maintain a fire service ground ladder.

Skill Instructions: Have in place, a secured extension ladder of at least 24 feet. The student will perform all aspects of cleaning, inspection and maintenance of the ladder. The student will also note any defects and how they are reported to the proper authorities.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Thoroughly cleans, rinses and dries the ladder with appropriate cleaning supplies	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Checks for signs of physical damage (cracks, splintering, warping, discoloration, bending, dents, etc.)	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Tests rungs for tightness by twisting them, while checking for bent rungs or beams	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Marks defects per local procedures	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Checks halyard for frays, cuts, or bunching	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Checks halyard for snugness and freedom of movement	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Checks heat sensor for signs of heat exposure	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Checks all moving parts	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Lubricate parts as needed, using a recommended lubricant	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Tag and remove ladder from service for any conditions that cannot be corrected at the current time and make proper notifications	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Records cleaning, inspection and maintenance performed according to local SOP	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 9 – Forcible Entry

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.3.4* Force entry into a structure, given PPE, tools, and an assignment, so that the tools are used as designed, the barrier is removed, and the opening is in a safe condition and ready for entry.

4.5.1 Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Forcible Entry - NFPA 1001-2019, 4.3.4

Skill Sheet #25

Forcible Entry Techniques - Doors

Skill Objective: Force entry into a structure, given PPE, tools, and an assignment, so that the tools are used as designed, the barrier is removed, and the opening is in a safe condition and ready for entry.

Skill Instructions: The instructor shall provide a door prop or actual entry ways into a building for the student to force entry through. The student shall select the proper forcible entry tool and properly carry it to the prop/doorway. The student using the techniques listed below and with the assistance of another fire fighter will force the door open.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
Inward swinging door	
1. Wearing all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Chose the correct tools required to complete the task and properly carries them to the prop/door	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Correctly identifies the type of door to be forced and tries the door first	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Places the fork of the prying tool just above or below the lock with the bevel side of the fork against the door	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Gives command to strike the prying tool when ready	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Repositions prying tool as necessary between strikes	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Make sure the fork end has penetrated between the door and the doorjamb and that approximately three-fourths of the forked end is extended past the door	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Exert pressure on the prying tool toward the door, forcing it open	<input type="checkbox"/> Y <input type="checkbox"/> N
Outward swinging door	
1. Wearing all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Chose the correct tools required to complete the task and properly carries them to the prop/door	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Correctly identifies the type of door to be forced and tries the door first	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Places the prying tool just above or below the lock with the adz end against the door	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Gives command to strike the prying tool when ready	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Pry down and out, applying force to the prying tool to separate the door from the jamb, then open door.	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



Forcible Entry - NFPA 1001-2019, 4.3.4

Skill Sheet #26

Forcible Entry Techniques - Windows

Skill Objective: The student shall force entry into a structure, given PPE, tools, and an assignment, so that the tools are used as designed, the barrier is removed, and the opening is in a safe condition and ready for entry.

Skill Instructions: The instructor shall provide a window prop or a building with windows for the student to force entry through. The student shall select the proper forcible entry tool and properly carry it to the prop/window. The student using the techniques listed below will force the window open.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
Glass Pane Window	
1. Wearing all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Selects the correct tools required to complete the task and properly carries them to the prop/door	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Correctly identifies the type of window to be forced, and tries opening first	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Properly positions themselves to the window	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Breaks the window glass a. Single-paned windows: start at the top of the pane b. Multi-paned windows: start at the lowest pane of glass.	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Uses tool to clean all broken glass out of the frame	<input type="checkbox"/> Y <input type="checkbox"/> N
Double-Hung Window	
1. Wearing all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Selects the correct tools required to complete the task and properly carries them to the prop/door	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Correctly identifies the type of window to be forced, and tries opening first	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Insert the prying tool under the center of the bottom sash in line with the locking mechanism	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Pry upward on the tool handle to force the lock	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Push the bottom sash upward to open the window	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Forcible Entry - NFPA 1001-2019, 4.3.4

Skill Sheet #27

Forcible Entry Techniques - Walls

Skill Objective: The student shall force entry into a structure, given PPE, tools, and an assignment, so that the tools are used as designed, the barrier is removed, and the opening is in a safe condition and ready for entry.

Skill Instructions: The instructor shall provide a wall prop or a building for the student to force entry through. The student shall select the proper forcible entry tool and properly carry it to the prop/building. The student using the techniques listed below will force entry through a wall.

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
For all types of walls	
1. Wearing all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Sizes-up the situation a. Confirms that no other existing entry points are available b. Evaluates the wall construction	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Selects the correct tools required to complete the task and properly carries them to the prop/wall	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Verbalizes the consideration of utilities	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Remove siding, if necessary, and locate studs	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Cut an inspection hole and utilize it to ensure the area is safe to continue entry	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Cut an opening large enough for entry using techniques according to the tools being used	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Uses various hand tools to remove the cut out wall and insulation	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Places debris out of the traffic area	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ **Date:** _____



Forcible Entry - NFPA 1001-2019, 4.5.1

Skill Sheet #28

Cleaning, Inspecting and Maintaining Forcible Entry Tools

Skill Objectives: The student, given a forcible entry tool, shall demonstrate cleaning, inspecting and maintenance of the tool.

Skill Procedure: The instructor shall select a forcible entry tool and present it to the student to clean, inspect and perform tool maintenance. The student will verbalize the inspection process. If the tool requires no maintenance, the student will verbalize what maintenance would be perform if necessary.

Student Name: _____

<u>Items to be checked</u> <i>If the student:</i>	<i>Competency Achieved</i>
Cleaning	
1. Wearing all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Selects proper cleaning supplies per manufactures guidelines	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Washes tools and thoroughly rinses with clean water	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Dries tool thoroughly	<input type="checkbox"/> Y <input type="checkbox"/> N
Inspecting	
1. Inspects tool for damage and wear a. Inspect working surface (dullness, cracks, chips, metal fatigue, etc.) b. Inspect handles (cracks, splinters or other damage) c. Inspect tool head	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Inspects parts for tightness and function	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Any tool requiring maintenance is tagged out of service per local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Forcible Entry - NFPA 1001-2019, 4.5.1

Skill Sheet #28

Cleaning, Inspecting and Maintaining Forcible Entry Tools

Continued from previous page

Maintenance (Note: the skill is intended for use with wooden handled tools, some steps may not apply to some tools)	
1. Maintain wood handles a. Repair loose tool head b. Sand wooden handle c. Apply boiled linseed oil to wooden handles as a protectant	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Maintain cutting edges a. File the cutting edges b. Sharpen as specified by the manufacturer or local SOPs c. Replace cutting head if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Maintain unprotected metal surfaces a. Remove rust with steel wool or fine sandpaper b. File chip, cracks or sharp edges c. Oil the metal surface lightly, using appropriate oil	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Documents inspections per local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 10 – Structural Search and Rescue

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

4.2.4* Activate an emergency call for assistance, given vision-obscured conditions, PPE, and department SOPs, so that the fire fighter can be located and rescued

4.3.1* Use self-contained breathing apparatus (SCBA) during emergency operations, given SCBA and other PPE, so that the SCBA is correctly donned, the SCBA is correctly worn, controlled breathing techniques are used, emergency procedures are enacted if the SCBA fails, all low-air warnings are recognized, respiratory protection is not intentionally compromised, and hazardous areas are exited prior to air depletion.

4.3.5* Exit a hazardous area as a team, given vision-obscured conditions, so that a safe haven is found before exhausting the air supply, others are not endangered, and the team integrity is maintained.

4.3.9* Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety — including respiratory protection — is not compromised.

4.3.21 Operate an air-monitoring instrument, given an air monitor and an assignment or task, so that the device is operated and the fire fighter recognizes the high- or low-level alarms of the air monitor and takes action to mitigate the hazard.



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue – NFPA 1001-2019, 4.3.1

Skill Sheet #30

Emergency Breathing Techniques

Skill Objective: The student, wearing a Self-Contained Breathing Apparatus (SCBA) and full protective clothing shall demonstrate the correct procedures for emergency breathing to conserve the air capacity of a SCBA cylinder under emergency conditions.

Skill Instructions: The student shall demonstrate at least one of the following emergency breathing techniques.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows include Skip breathing, Box breathing, Reilly Emergency Breathing Technique (R-EBT), Straw breathing, and Performs one of the above techniques for four (4) cycles.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue – NFPA 1001-2019, 4.3.1

Skill Sheet #31

Emergency Breathing - Bypass Valve

Skill Objective: The student shall demonstrate the correct procedure, utilizing the bypass valve, for conserving air in the event of mainline failure during SCBA usage.

Skill Instructions: The student shall correctly don and place SCBA into full operation with tank cylinder and mainline valves fully open and bypass valve closed.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows 1-7 detailing steps for emergency breathing bypass valve procedure.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue – NFPA 1001-2019, 4.2.4
Skill Sheet #32

MAYDAY Report and Survival Techniques

Skill Objective: The student, wearing full PPE, a radio and flashlight, shall demonstrate transmitting a "MAYDAY" report and the techniques to assist rescuers to locate him/her.

Skill Procedure: The instructor shall locate a suitable room or structure and simulate a hostile environment using either a smoke machine or by covering the SCBA facepiece. The student shall use proper procedures to transmit a distress call by radio and demonstrate the procedures to follow to help other fire fighters locate and rescue him/her.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Determines the need to declare a MAYDAY, and presses radio emergency button if equipped	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Transmits "Mayday - Mayday - Mayday" over the radio	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Provides command your information over the radio (uses LUNAR, LIPS or other method established by local SOPs)	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Activates PASS device	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Isolate yourself or escapes the environment, if possible	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Moves to a wall and remains in a low position	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Activates flashlight and points it toward the ceiling	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Uses a tool or other object to make noise	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Remains calm and conserves air	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Gives update of situation to Command	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue – NFPA 1001-2019, 4.3.21
Skill Sheet #33
Air Monitoring

Skill Objectives: Given PPE, an air-monitoring instrument and an assignment, the student will operate the instrument and report the readings. Then the student will demonstrate the proper techniques to identify the hazards of the given hazardous material.

Skill Instructions: The student will operate the air-monitoring device and report the readings of the instrument. The student will also verbalize the high and low alarm settings for each gas being recorded.

Student Name: _____

<u>Items to be checked</u>	<u>Competency Achieved</u>
<i>If the student:</i>	
1. Selects the appropriate meter from monitoring equipment	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Turns on instrument	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Explains how many sensors are installed and what each sensor detects	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Performs a "Fresh Air" calibration, prior to entry	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Identifies alarm settings for O2 (19.5-23%)	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Identifies alarm settings for LEL (10%)	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Identifies alarm settings for CO (35 ppm)	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Identifies alarm setting for other sensors, if any	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Demonstrates proper monitoring techniques per local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Reports readings to Command	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Completes assignment and turns off instrument	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue- NFPA 1001-2019, 4.3.9
Skill Sheet #34
Primary or Secondary Search

Skill Objective: The student, operating as a team of two (2), wearing full PPE and given various equipment, shall demonstrate entering a smoke-filled, hostile environment within an enclosed structure with multiple rooms to search for and locate a victim. Full protective equipment, including SCBA shall be worn.

Skill Instructions: The instructor shall locate a suitable room or structure and simulate a hostile environment using either a smoke machine or by covering the SCBA facepieces. No use of hand lights by the candidate or his or her partner is allowed. The instructor shall place a victim to be located by the students within the structure.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Evaluates the structure and establishes a search pattern	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Initiates accountability system	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Checks doors for heat, if closed, before entering rooms	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Searches the structure using selected search pattern	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Calls out for potential victims and stops periodically to listen for sounds	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Completely searches room and controls all doors while search is conducted	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Updates IC on progress	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Marks all rooms that have been searched	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Monitors air supply ensuring adequate air is available for self-rescue	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Locates victim and removes victim from structure using appropriate carry or drag	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Updates IC of task completion and give a personal accountability report	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue- NFPA 1001-2019, 4.3.5

Skill Sheet #35

Exit a Hazardous Environment

Skill Objectives: The student, operating as a team of two (2), wearing full PPE, shall demonstrate entering a smoke-filled, hostile environment during simulated fire suppression operations, within an enclosed structure of at least 20-feet by 20-feet and search for a victim.

Skill Instructions: The instructor shall locate a suitable room or structure and simulate a hostile environment using either a smoke machine or by covering the SCBA facepiece. No use of hand lights by the student or their partner is allowed. A 1 3/4" charged handline will be provided as a lifeline. The instructor shall inform the students of atmospheric conditions deteriorating, at which point the students will exit the hazardous environment.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows list 7 tasks for exiting a hazardous environment with Y/N checkboxes.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY
 FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue- NFPA 1001-2019, 4.3.9
Skill Sheet #36
Lifts and Carries

Skill Objective: The student, wearing full protective equipment and SCBA and given a patient or prop weighing between 100-190 pounds, shall demonstrate moving the patient a minimum of 20 feet using a two-person extremities carry, a webbing drag, and an incline drag without compromising his/her own respiratory protection. **All three methods must be demonstrated.**

Skill Instructions: The instructor shall choose a prop or someone within the weight guidelines to simulate an unconscious patient. The student (Fire Fighter #1) will operate as a team of two (2) to conduct the two-person extremities carry. Each student must perform in the Fire Fighter #1 position to complete this skill.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Incline Drag</u>	
1. Places the victim on their back	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Kneels at the victim's head facing the feet	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Supports the victim's head and neck	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Lifts the victim's body into a sitting position	<input type="checkbox"/> Y <input type="checkbox"/> N
5. With their right arm, reaches under the victim's right arm, across the chest and grasps the victim's left wrist, repeats for the left side	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Stand and move victim the required distance to a safe location	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Two-Person Extremities Carry</u>	
1. Places the victim on their back	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Fire Fighter #1 kneels at the victim's head facing the feet	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Fire Fighter #1 supports the victim's head and neck	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Fire Fighter #1 lifts the victim's body into a sitting position	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Fire Fighter #1 with their right arm, reaches under the victim's right arm, across the chest and grasps the victim's left wrist, repeats for the left side	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Fire Fighter #2 adjusts the victim's legs to provide enough room to kneel and grasp underneath the victim's knees	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Fire Fighter #2 facing the same was as Fire Fighter #1, both fire fighters using proper lifting techniques, stand and move the victim on command from Fire Fighter #1 the required distance to a safe location	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue- NFPA 1001-2019, 4.3.9
Skill Sheet #36
Lifts and Carries

Continued from previous page

Table with 2 columns: Skill description and checkboxes for Yes/No. Row 1: Webbing Drag. Rows 2-8: Steps 1-7 of the webbing drag procedure.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue- NFPA 1001-2019, 4.3.5, 4.3.9
Skill Sheet #37
Responding to a MAYDAY

Skill Objective: The student, leading a team of two (2), wearing full PPE and given various tools and equipment shall demonstrate entering a smoke-filled, hostile environment within an enclosed structure and search for, locate and remove a downed fire fighter from the structure within 15 minutes.

Skill Instructions: The instructor shall locate a suitable structure and simulate a hostile environment using either a smoke machine or by covering the SCBA facepieces. No use of hand lights by the student or his or her partner is allowed. The instructor shall place a victim to be located by the student within the structure. The skill begins when the student enters the door and ends when the downed fire fighter is removed to the exit.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Receives report of MAYDAY noting all information and relaying information to team	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Ensure that all crew members correctly wear all PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Mobilizes crew while enacting an accountability system and initial plan of action	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Locate a simulated downed firefighter using search and rescue tactics.	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Assess downed firefighter for air supply, major traumatic injury, and level of consciousness	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Establish a sustainable air supply to the downed firefighter	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Broadcast a radio report including location of the downed firefighter, downed firefighter's condition, and the intention of the rapid intervention crew	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Successfully removes the downed firefighter from the structure	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Upon exiting structure, gives accountability report	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



Structural Search and Rescue – NFPA 1001-2019, 4.3.1

Skill Sheet #38

Maneuver through a Restricted Opening

Skill Objective: The student, wearing full personal protective equipment, including a Self-Contained Breathing Apparatus, safely enter an area through a restricted opening, and simulate fire-ground activities for a minimum of five minutes.

Skill Instructions: The instructor shall simulate or actually provide a restricted opening. The instructor and/or other qualified fire fighter shall accompany the student throughout the skill. The instructor shall establish activities for the student to perform after entering an area through the restricted opening. The activities shall be activities that could normally be performed in a fire or rescue situation.

Student Name: _____

<u>Items to be checked</u>	<u>Competency Achieved</u>
<i>If the student: (one of the 2 methods listed must be completed)</i>	
1. Complete removal of SCBA harness system method	
a. Loosens and unbuckles straps	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Removes SCBA from back	<input type="checkbox"/> Y <input type="checkbox"/> N
c. Places unit on bottle with regulator toward face	<input type="checkbox"/> Y <input type="checkbox"/> N
d. Gathers straps on top	<input type="checkbox"/> Y <input type="checkbox"/> N
e. Uses a tool to sound floor on other side of restricted opening	<input type="checkbox"/> Y <input type="checkbox"/> N
f. Navigates restricted opening by pushing SCBA through opening and following through the opening, maintaining control of SCBA without losing contact of SCBA	<input type="checkbox"/> Y <input type="checkbox"/> N
g. Face-piece is not dislodged	<input type="checkbox"/> Y <input type="checkbox"/> N
h. After clearing opening, redons SCBA, buckling and retightening all straps	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If needed, adjusts facepiece taking care not to compromise the seal	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Structural Search and Rescue – NFPA 1001-2019, 4.3.1

Skill Sheet #38

Maneuver through a Restricted Opening

Continued from previous page

2. Side method	
a. Loosens waist strap and appropriate shoulder strap	<input type="checkbox"/> Y <input type="checkbox"/> N
b. Remove arm from the appropriate shoulder strap	<input type="checkbox"/> Y <input type="checkbox"/> N
c. Shift SCBA to appropriate side and tuck it under the armpit	<input type="checkbox"/> Y <input type="checkbox"/> N
d. Ensure the waist strap remains buckled and opposite arm remains in shoulder strap.	<input type="checkbox"/> Y <input type="checkbox"/> N
e. Use a tool to sound floor on other side of restricted opening	<input type="checkbox"/> Y <input type="checkbox"/> N
f. With SCBA tucked under the armpit, lay on side and navigate through the restricted opening.	<input type="checkbox"/> Y <input type="checkbox"/> N
g. Face-piece is not dislodged	<input type="checkbox"/> Y <input type="checkbox"/> N
h. After clearing opening, redons SCBA, buckling and retightening all straps	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If needed, adjusts facepiece taking care not to compromise the seal	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 11 – Tactical Ventilation

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2013:

Fire Fighter I Standard

4.3.11 Perform horizontal ventilation on a structure operating as part of a team, given an assignment, PPE, ventilation tools, equipment, and ladders, so that the ventilation openings are free of obstructions, tools are used as designed, ladders are correctly placed, ventilation devices are correctly placed, and the structure is cleared of smoke.

4.3.12 Perform vertical ventilation on a structure as part of a team, given an assignment, PPE, ground and roof ladders, and tools, so that ladders are positioned for ventilation, a specified opening is created, all ventilation barriers are removed, structural integrity is not compromised, products of combustion are released from the structure, and the team retreats from the area when ventilation is accomplished.



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Tactical Ventilation – NFPA 1001-2019, 4.3.11

Skill Sheet #39

Horizontal Ventilation – Negative Pressure

Skill Objective: The student shall demonstrate the proper set up of a smoke ejector in a door or window to ventilate a structure using negative pressure ventilation.

Skill Instructions: The instructor shall locate a suitable structure to be ventilated using negative pressure ventilation. The student shall properly set up a smoke ejector or fan and operate the equipment to demonstrate techniques for negative ventilation.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Places smoke ejector in window or doorway so exhaust flows in the same direction as the natural wind	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Seals around ejector to eliminate air recirculating	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Communicates to opens windows and/or doors on windward side of structure to aid in ventilation process	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Keeps airflow in as straight a line as possible	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Removes all obstacles to airflow	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Confirms windows and doors are open	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Starts smoke ejector	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Tactical Ventilation – NFPA 1001-2019, 4.3.11

Skill Sheet #40

Horizontal Ventilation – Positive Pressure

Skill Objective: The student shall demonstrate the proper set up of a fan in a door to ventilate a structure using positive pressure ventilation.

Skill Instructions: The instructor shall locate a suitable structure to be ventilated using positive pressure ventilation. The student shall properly set up a fan and operate the equipment to demonstrate techniques for positive pressure ventilation.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows list 11 steps for horizontal ventilation.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Tactical Ventilation – NFPA 1001-2019, 4.3.11

Skill Sheet #41

Horizontal Ventilation – Hydraulic Pressure

Skill Objective: The student shall demonstrate the proper use of a charged hose line in a window to ventilate a structure.

Skill Instructions: The instructor shall locate a suitable structure to be ventilated using hydraulic ventilation. The student shall properly operate charged hose line to demonstrate techniques for hydraulic ventilation.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. If necessary, clears the exhaust opening of all obstructions	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Extends the nozzle outside of the opening and opens the nozzle	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Sets the fog nozzle wide enough to cover 85% to 90% of the opening	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Closes the nozzle and brings the nozzle about 2 feet inside of the building	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Opens the nozzle and directs the fog pattern out of the opening	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Monitors progress of ventilation	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Tactical Ventilation – NFPA 1001-2019, 4.3.11

Skill Sheet #42

Vertical Ventilation – Flat Roof

Skill Objective: The student, positioned on a flat roof, will choose the equipment needed to ventilate the roof and then demonstrate making an adequate opening in the roof for ventilation purposes.

Skill Instructions: The instructor shall locate a flat roof on a structure available for simulation. The instructor shall identify location of simulated fire, wind direction/strength and existing exposures. The student should then choose adequate equipment and additional help in order to perform ventilation on the roof.

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
<i>Ventilate using a Power Saw</i>	
1. Confirms saw is operating properly before carrying or hoisting saw to the roof	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Sounds the roof with an appropriate tool before stepping on the roof	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Locates the rafters/supports	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Confirms orders to begin ventilation operations of the structure	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Selects the location for ventilation and positions upwind of the planned opening	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Outlines the ventilation opening large enough to match the fire conditions with an axe	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Remove materials that may interfere with cutting the opening from the outlines	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Remove the roof finishing materials, if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Sets the guard depth control, if applicable	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Starts the saw and cuts a triangular inspection opening in the roof if required by local SOPs, ensuring all cuts will be made working toward the escape route	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Makes cut #1 perpendicular to a roof truss or support, leaving supports intact	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Makes cut #2 on one side of the opening parallel to the supports and intersecting cut #1	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Makes cut #3 on the opposite side of cut #2 perpendicular to and intersecting cut #1	<input type="checkbox"/> Y <input type="checkbox"/> N
14. Makes cut #4 by joining cut #2 and #3, leaving supports intact, completing the ventilation opening	<input type="checkbox"/> Y <input type="checkbox"/> N

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MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Tactical Ventilation – NFPA 1001-2019, 4.3.11

Skill Sheet #42

Vertical Ventilation – Flat Roof

Continued from previous page

15. Removes or tilts decking from the hole with appropriate tool	<input type="checkbox"/> Y <input type="checkbox"/> N
16. Force entry through the interior ceiling using appropriate tool, working from the upwind side of the ventilation hole	<input type="checkbox"/> Y <input type="checkbox"/> N
17. Inspects the ventilation site and communicates with interior crews to ensure the effectiveness of the ventilation operations	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Ventilate using an Axe</u>	
1. Carries or hoists axe to the roof	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Sounds the roof with an appropriate tool before stepping on the roof	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Locates the rafters/supports	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Confirms orders to begin ventilation operations of the structure	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Selects the location for ventilation and positions upwind of the planned opening	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Outlines the ventilation opening large enough to match the fire conditions with an axe	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Remove materials that may interfere with cutting the opening from the outlines	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Remove the roof finishing materials, if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Cuts a triangular inspection opening in the roof if required by local SOPs, ensuring all cuts will be made working toward the escape route	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Makes cut #1 perpendicular to a roof truss or support, leaving supports intact	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Makes cut #2 on one side of the opening parallel to the supports and intersecting cut #1	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Makes cut #3 on the opposite side of cut #2 perpendicular to and intersecting cut #1	<input type="checkbox"/> Y <input type="checkbox"/> N
14. Makes cut #4 by joining cut #2 and #3, leaving supports intact, completing the ventilation opening	<input type="checkbox"/> Y <input type="checkbox"/> N
15. Removes or tilts decking from the hole with appropriate tool	<input type="checkbox"/> Y <input type="checkbox"/> N
16. Force entry through the interior ceiling using appropriate tool, working from the upwind side of the ventilation hole	<input type="checkbox"/> Y <input type="checkbox"/> N
17. Inspects the ventilation site and communicates with interior crews to ensure the effectiveness of the ventilation operations	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Tactical Ventilation – NFPA 1001-2019, 4.3.11

Skill Sheet #43

Vertical Ventilation – Pitched Roof

Skill Objective: The student, positioned on a pitched roof, will choose the equipment needed to ventilate the roof and then demonstrate making an adequate opening in the roof for ventilation purposes.

Skill Instructions: The instructor shall locate a pitched roof on a structure available for simulation. The instructor shall identify location of simulated fire, wind direction/strength and existing exposures. The student should then choose adequate equipment and additional help in order to perform ventilation on the roof.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u><i>Ventilate using a Power Saw</i></u>	
1. Confirms saw is operating properly before carrying or hoisting saw to the roof	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Positions and secures the roof ladder upwind of the planned opening and sounds the roof with an appropriate tool before stepping on the roof	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Locates the rafters/supports	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Confirms orders to begin ventilation operations of the structure	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Selects the location for ventilation and positions upwind of the planned opening	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Outlines the ventilation opening large enough to match the fire conditions with an axe	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Remove materials that may interfere with cutting the opening from the outlines	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Remove the roof finishing materials, if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Sets the guard depth control, if applicable	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Starts the saw and cuts a triangular inspection opening in the roof if required by local SOPs, ensuring all cuts will be made working toward the escape route	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Makes cut #1 perpendicular to a roof truss or support, leaving supports intact	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Makes cut #2 on one side of the opening parallel to the supports and intersecting cut #1	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Makes cut #3 on the opposite side of cut #2 perpendicular to and intersecting cut #1	<input type="checkbox"/> Y <input type="checkbox"/> N
14. Makes cut #4 by joining cut #2 and #3, leaving supports intact, completing the ventilation opening	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



Tactical Ventilation – NFPA 1001-2019, 4.3.11

Skill Sheet #43

Vertical Ventilation – Pitched Roof

Continued from previous page

15. Removes or tilts decking from the hole with appropriate tool	<input type="checkbox"/> Y <input type="checkbox"/> N
16. Force entry through the interior ceiling using appropriate tool, working from the upwind side of the ventilation hole	<input type="checkbox"/> Y <input type="checkbox"/> N
17. Inspects the ventilation site and communicates with interior crews to ensure the effectiveness of the ventilation operations	<input type="checkbox"/> Y <input type="checkbox"/> N
<i>Ventilate using an Axe</i>	
1. Carries or hoists axe to the roof	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Positions and secures the roof ladder upwind of the planned opening and sounds the roof with an appropriate tool before stepping on the roof	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Locates the rafters/supports	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Confirms orders to begin ventilation operations of the structure	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Selects the location for ventilation and positions upwind of the planned opening	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Outlines the ventilation opening large enough to match the fire conditions with an axe	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Remove materials that may interfere with cutting the opening from the outlines	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Remove the roof finishing materials, if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Cuts a triangular inspection opening in the roof if required by local SOPs, ensuring all cuts will be made working toward the escape route	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Makes cut #1 perpendicular to a roof truss or support, leaving supports intact	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Makes cut #2 on one side of the opening parallel to the supports and intersecting cut #1	<input type="checkbox"/> Y <input type="checkbox"/> N
13. Makes cut #3 on the opposite side of cut #2 perpendicular to and intersecting cut #1	<input type="checkbox"/> Y <input type="checkbox"/> N
14. Makes cut #4 by joining cut #2 and #3, leaving supports intact, completing the ventilation opening	<input type="checkbox"/> Y <input type="checkbox"/> N
15. Removes or tilts decking from the hole with appropriate tool	<input type="checkbox"/> Y <input type="checkbox"/> N
16. Force entry through the interior ceiling using appropriate tool, working from the upwind side of the ventilation hole	<input type="checkbox"/> Y <input type="checkbox"/> N
17. Inspects the ventilation site and communicates with interior crews to ensure the effectiveness of the ventilation operations	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 12 – Fire Hose

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.3.10* Attack an interior structure fire operating as a member of a team, given an attack line, ladders when needed, personal protective equipment, tools, and an assignment, so that team integrity is maintained, the attack line is deployed for advancement, ladders are correctly placed when used, access is gained into the fire area, effective water application practices are used, the fire is approached correctly, attack techniques facilitate suppression given the level of the fire, hidden fires are located and controlled, the correct body posture is maintained, hazards are recognized and managed, and the fire is brought under control.

4.5.2 Clean, inspect, and return fire hose to service, given washing equipment, water, detergent, tools, and replacement gaskets, so that damage is noted and corrected, the hose is clean, and the equipment is placed in a ready state for service.



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Hose – NFPA 1001-2019, 4.5.2

Skill Sheet #44

Rolling a Hose

Skill Objective: The student, given a section of 1½" or larger hose, shall demonstrate rolling a hose.

Skill Instructions: The instructor should provide hose to the student and have them perform following hose rolls.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<i>Straight Roll</i>	
1. Lays out the hose straight and flat on a clean surface	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Rolls the male coupling over onto the hose to start	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Continue rolling the coupling over onto the hose to form an even roll	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Lays the completed roll on the ground and tamps any coils down	<input type="checkbox"/> Y <input type="checkbox"/> N
5. When asked, states the reason why they began with the male	<input type="checkbox"/> Y <input type="checkbox"/> N
<i>Donut Roll</i>	
1. Lays out the hose straight and flat on a clean surface	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Rolls the hose so that both couplings are inline and near the outside of the roll	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Extend the female end over the male end	<input type="checkbox"/> Y <input type="checkbox"/> N
4. The male coupling shall be protected and the female coupling must not make another complete revolution	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Hose – NFPA 1001-2019, 4.3.10

Skill Sheet #45

Coupling a Hose

Skill Objective: The student, given two lengths of fire hose, shall couple the two lengths of fire hose using all of the methods below.

Skill Instructions: The instructor should arrange to have the necessary equipment available in order for the student to demonstrate the methods of coupling.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Foot-tilt Method</u>	
1. Place one foot behind the male coupling and apply pressure to tilt it upwards	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Grasping the female end, place one hand behind the coupling and the other hand on the swivel	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Make the connection by bringing the two couplings together, aligning the higbee cut	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Turns the swivel clockwise with the thumb and hand tighten the connection	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Two – Fire Fighter Method</u>	
1. Fire Fighter #1 grasps the male coupling with both hands and bends the hose directly behind the coupling	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Fire Fighter #1 holds the coupling and hose tightly against body or upper thigh with male threads pointed outward	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Fire Fighter #2 grasps the female coupling with both hands and brings the two couplings together and aligns the indicator marks	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Fire Fighter #2 turns the swivel counterclockwise until the threads line up or are seated	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Fire Fighter #2 turns the swivel clockwise to fully hand-tighten the connection	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Hose – NFPA 1001-2019, 4.3.10

Skill Sheet #46
Un-Coupling a Hose

Skill Objective: The student, given two lengths of connected fire hose, shall uncouple the two lengths of fire hose using all of the methods below.

Skill Instructions: The instructor should arrange to have the necessary equipment available in order for the student to demonstrate the methods of uncoupling the hose.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u><i>Knee-Press Method</i></u>	
1. Grabs the hose behind the female coupling and stands the male coupling on end	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Places one knee on the hose and shank of the female coupling	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Loosens the connection by applying body weight and snapping the swivel in a counterclockwise direction	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Completely uncouples the hose	<input type="checkbox"/> Y <input type="checkbox"/> N
<u><i>Two – Fire Fighter Method</i></u>	
1. Both fire fighters grips a respective coupling firmly in both hands and presses the coupling towards each other	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Both fire fighters loosens the connection by keep arms stiff and using their body weight to turn each coupling counterclockwise	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Completely uncouples the hose	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Hose – NFPA 1001-2019, 4.5.2

Skill Sheet #47

Loading Hose in a Hosebed

Skill Objective: The student, given a fire apparatus and 2½" or larger supply hose, with assistance shall demonstrate loading 200 feet of hose onto the hose bed of an apparatus.

Skill Instructions: The instructor shall arrange to have the necessary equipment available in order for the student to demonstrate loading hose onto an apparatus.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<i>Flat Hose Load</i>	
1. Places the first coupling at a front corner of the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Lays the hose flat in the hose bed from front to back	<input type="checkbox"/> Y <input type="checkbox"/> N
3. When reaching the back of the hose bed, folds the hose back on itself and lays the hose back to the front of the bed, using dutchmens when needed, repeating until the hose covers the bottom of the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Starts the second layer by repeating Steps 2 and 3, continuing until all the hose is loaded and finishes the hose load according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
<i>Accordian Hose Load</i>	
1. Places the first coupling at a back corner of the hose bed and lays the first length of hose on edge against the bed partition	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Folds the hose at the front of the hose bed back on itself and lays the hose back to the rear of the hose bed parallel to the first length	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Folds the hose at the rear of the hose bed so that the bend is even with the rear edge of the hose bed and lays the hose back to the front of the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Continues to lay the hose in parallel folds across the hose bed to complete the first tier, staggering the folds at the rear of the bed so that every other bend is approximately 2 inches shorter than the rear edge or front of the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Angle the hose upward to start the second tier, making the first fold of the second directly over the last fold of the first tier at the rear of the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Continue using steps 2-5 until all the hose is loaded and finishes the hose load according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



Fire Hose – NFPA 1001-2019, 4.5.2

Skill Sheet #48

Loading Hose for Pre-connected Hose

Skill Objective: The student, given 150 feet of 1½" or 1¾" hose, shall demonstrate loading a pre-connected hose load.

Skill Instructions: The instructor shall provide hose and necessary equipment to the student for the purpose of demonstrating loading a pre-connected hose load.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Pre-connected Flat Hose Load</u>	
1. Attaches the female coupling to the discharge outlet and lays the first length of hose flat in the bed against the side wall	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Angles the hose to lay the next fold adjacent to the first fold and continue building the first tier	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Makes a fold that extends approximately 8 inches beyond the load at a point that is approximately 1/3 the total length of the load that serves as a pull handle	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Continues laying the hose in the same manner as step 2, building each tier across the bed	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Make a fold that extends approximately 14 inches beyond the load at a point that is approximately 2/3 the total length of the load that's serves as a pull handle	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Completes the load, attaches the nozzle and places it on top of the load	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Pre-Connected Triple Layer Hose Load</u>	
1. Starting with the hose sections connected extending in a straight line on the ground pointing straight away from the hose bed, attaches the female coupling to the discharge outlet	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Picks up the hose at a point 2/3 the distance to the end of the hose, creating a fold and carries it back to the apparatus and places it on the ground and attaches the nozzle to the hose end	<input type="checkbox"/> Y <input type="checkbox"/> N
3. With the assistance of several fire fighters, pick up the entire length of the three layers, one at a time starting with the piece attached to the discharge outlet	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Lays the hose into the bed by folding over the three layers into the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Folds the layers over at the front of the bed and continues to load the hose back to the rear filling the entire width of the bed by alternating to each side, if applicable, making all folds at the rear of the bed even with the edge of the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Continue using steps 4-5 until all the hose is loaded and finishes the hose load according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Hose – NFPA 1001-2019, 4.5.2

Skill Sheet #49

Drain and Carry of Fire Hose

Skill Objective: The student, given a section of 1 ½” or larger hose shall demonstrate the single section drain and carry.

Skill Instructions: The instructor should provide hose to the student for demonstrating the single section drain and carry.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Stretches hose flat to its full length	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Picks up male coupling of hose and places hose over shoulder keeping coupling in front of body	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Walks down the hose, placing loops on shoulder allowing water to drain toward the female coupling	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Completely drains the hose	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Hose – NFPA 1001-2019, 4.5.2

Skill Sheet #50

Cleaning, Inspecting and Maintenance of Fire Hose

Skill Objective: The student, given a section of fire hose, shall demonstrate cleaning, inspecting and the maintenance of the fire hose.

Skill Instructions: The instructor shall provide hose and necessary equipment to the student for the purpose of demonstrating cleaning, inspecting and the maintenance of the fire hose.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Cleaning</u>	
1. Lays hose flat on clean, dry surface to its full length, ensuring it cannot come into contact with any chemicals	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Hand wash or machine was the hose using cleaning supplies according to manufacturer’s recommendations or local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Dry the hose according to local SOPs, if required	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Inspecting</u>	
1. After cleaning the hose and prior to drying, inspects both couplings for any damage (threads, lugs, swivel and/or gasket)	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Walks along the section of hose, visually inspecting the surface for abrasions, burns or other damage, flips the hose over and inspects the other side for same	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Marks any damage according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Notes general inspection results and update fire service hose log as required by the local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Maintenance</u>	
1. Remove old or damaged gasket and discard, as necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Place new gasket into the groove in the swivel, smoothing it as necessary to seat	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor’s Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 13 – Hose Operations and Hose Streams

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.3.10* Attack an interior structure fire operating as a member of a team, given an attack line, ladders when needed, personal protective equipment, tools, and an assignment, so that team integrity is maintained, the attack line is deployed for advancement, ladders are correctly placed when used, access is gained into the fire area, effective water application practices are used, the fire is approached correctly, attack techniques facilitate suppression given the level of the fire, hidden fires are located and controlled, the correct body posture is maintained, hazards are recognized and managed, and the fire is brought under control.

4.3.15* Connect a fire department pumper to a water supply as a member of a team, given supply or intake hose, hose tools, and a fire hydrant or static water source, so that connections are tight and water flow is unobstructed.

4.5.1 Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise



Hose Operations and Hose Streams – NFPA 1001-2019, 4.3.15

Skill Sheet #51
Connecting to a Water Source

Skill Objective: The student, given an equipped fire apparatus, supply hose, assortment of appliances and tools, a pressurized water source, and a static water source, wearing appropriate PPE, shall demonstrate connecting a water source to the pump intake using a 2 ½” or larger supply hose.

Skill Instructions: The instructor shall arrange for a fire apparatus to be positioned near each type of water source for the student to connect to a water source.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Pressurized Water Source</u>	
1. Removes the steamer and/or 2 ½” hydrant caps, using an appropriate tool if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Inspects the hydrant for exterior and interior damage and for debris inside the outlets	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Places the hydrant wrench on the valve stem and slowly opens hydrant flushing it to ensure that it is free of debris	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Connect the soft sleeve hose to the pump intake and hand-tightens connections	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Makes the hydrant connection to the steamer outlet and/or 2 ½” outlet, hand-tightening the connections	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Connects appropriate valves to the hydrant according to local SOPs replaces any caps to the outlets not being used	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Fully opens the hydrant slowly	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Tightens any leaking connections using and appropriate tool	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Static Water Source – Dry Hydrant</u>	
1. Removes the cap of a dry hydrant, using an appropriate tool if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Inspects the hydrant for exterior and interior damage and for debris inside the outlet	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Connects the hard-suction intake hose to the hydrant and the apparatus intake and hand-tighten connections	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Tightens any leaking connections using and appropriate tool	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.15

Skill Sheet #52

Connecting to a Water Source – Drafting Operations

Skill Objective: The student, given an equipped fire apparatus, portable water tank, supply hose, assortment of appliances and tools, wearing appropriate PPE, shall demonstrate assembling the equipment for drafting operations.

Skill Instructions: The instructor shall arrange for a fire apparatus and required equipment for the student to setup for drafting operations, inspection and tear down of drafting equipment.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Static Water Source – Portable Water Tank</u>	
<u>Deploy Portable Water Tank</u>	
1. Carries portable water tank to appropriate location relative to the drafting apparatus	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Checks the area for debris and deploys tarps to protect the portable tank	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Sets up portable tank and ensures that drain is secured	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Equipment Set-Up for Drafting</u>	
1. Ensures gaskets and couplings on hard suction hose are clean and able to make an air-tight seal (clear of dirt or gravel)	<input type="checkbox"/> Y <input type="checkbox"/> N
2. With the assistance of another fire fighter connects the hard suction hoses together	<input type="checkbox"/> Y <input type="checkbox"/> N
3. With assistance, connects the strainer to one end of the hard-suction hose, hand-tightening the connection and using appropriate tools to make an air-tight seal, if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Places it in the portable water tank	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Removes pump intake cap on pump	<input type="checkbox"/> Y <input type="checkbox"/> N
6. With assistance, connects hard suction hose to pump intake, using appropriate tools to make an air-tight connection	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Connects hose to jet siphon (if used) or provide a waste line to maintain prime	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Dismantles drafting equipment and returns to proper storage on apparatus	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.15

Skill Sheet #53

Connecting to a Water Source – Forward and Reverse Lays

Skill Objective: The student, working as a team of two (2) and given an equipped fire apparatus and hydrant, wearing PPE (SCBA optional), shall demonstrate making hydrant-to-pumper connections during both a forward and reverse lay.

Skill Instructions: The instructor should arrange for a fire apparatus to be positioned near a fire hydrant and identify which supply hose the candidate shall use to achieve the objective. One student will pull hose off the pumper and make appropriate connections while the other will work with the driver/operator of the pumper after movement is completed.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Forward Lay</u>	
1. Fire Fighter #1 grabs appropriate tools and appliances to make a hydrant connection	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Fire Fighter #1 pulls enough supply hose from the apparatus to wrap around the hydrant	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Fire Fighter #1 loops the hose around the hydrant so that it is restrained when the pumper moves	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Fire Fighter #1 signals the driver/operator to proceed to the incident	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Fire Fighter #1 connects the supply hose to the hydrant <ul style="list-style-type: none"> a. Remove the cap from the hydrant b. Flush the hydrant c. Connect the hose to the appropriate outlet 	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Fire Fighter #2 pulls appropriate length of hose off of apparatus and uncouples from hose remaining in the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Fire Fighter #2 connect hose to apparatus pump intake valve	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Fire Fighter #1 communicates with apparatus, ensuring the hose is connected to the pump intake valve	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Slowly and fully opens the hydrant	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Proceed to the apparatus removing kinks and checking for leaks	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.15

Skill Sheet #53

Connecting to a Water Source – Forward and Reverse Lays

Continued from previous page

<i>Reverse Lay</i>	
1. Fire Fighter #1 pulls sufficient hose from the supply apparatus to reach the attack apparatus	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Fire Fighter #1 anchors the hose while the supply apparatus proceeds to the water source	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Fire Fighter #1 make an intake connection at the attack apparatus	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Fire Fighter #2 pulls appropriate length of hose off of supply apparatus and uncouples from hose remaining in the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Fire Fighter #2 connects the supply hose to a discharge valve	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Fire Fighter #2 grabs appropriate tools and appliances to make a hydrant connection	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Fire Fighter #2 connects the supply apparatus to the hydrant <ul style="list-style-type: none"> a. Removes the cap from the hydrant b. Flushes the hydrant c. Connects the hose to the appropriate outlet 	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Proceeds along the hose to the attack apparatus, removing kinks and checking for leaks	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #54

Advancing a Hose Load – Pre-connected Hose Line

Skill Objective: The student, given 1 ½” or larger hose, wearing PPE (SCBA optional) shall demonstrate advancing a pre-connected hose load from the apparatus.

Skill Instructions: The instructor shall provide an apparatus with a hose load to the student for purpose of demonstrating advancing the pre-connected hose load from the apparatus. The student shall advance the hose load to an area designated by the instructor.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<i>Flat – Hose Method</i>	
1. Puts one arm through the longer pull loop and grabs the shorter pull loop with the same hand	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Grabs the nozzle with the opposite hand and drapes over shoulder	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Pulls the hose load from the bed using the pull loops by facing away from the apparatus and walking toward the area designated by the instructor	<input type="checkbox"/> Y <input type="checkbox"/> N
4. After deploying nozzle to designated area, checks to make sure all hose was pulled from the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Walks length of hose adjusting hose to ensure hose is free of kinks	<input type="checkbox"/> Y <input type="checkbox"/> N
<i>Triple Layer Method</i>	
1. Places the nozzle and the fold of the first tier over the shoulder	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Pulls the hose load from the bed by facing away from the apparatus and walking toward the area designated by the instructor	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Pulls the hose completely out of the hose bed	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Drops the folded end from the shoulder when the hose bed has been cleared	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Continues to advance to the designated area	<input type="checkbox"/> Y <input type="checkbox"/> N
6. After deploying nozzle to designated area, walks length of hose adjusting hose to ensure hose is free of kinks	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #55

Extending a Hose Line

Skill Objective: The student, given 1 ½” or larger charged hose line, wearing PPE (SCBA optional) shall demonstrate extending a hose line.

Skill Instructions: The instructor shall arrange for a hose to be charged to normal operating pressure. The student will demonstrate the procedures for extending a hose line.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Brings additional sections of hose to the nozzle end of the hose line	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Opens the nozzle slightly	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Restricts the flow of water by applying a hose clamp approximately 5 feet behind the nozzle or calling for the hose line to be shut down at the pump panel	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Removes the nozzle and adds sections of hose as needed	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Reattaches the nozzle and organizes the hose to eliminate kinks	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Recharges the hose line by slowly releasing the hose clamp or call for the line to be charged from the pump panel	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Ensures there are no kinks in the hose line and opens the nozzle to bleed the air from the hose line	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #56

Replacing a Burst Hose Line

Skill Objective: The student, wearing protective equipment (SCBA optional) and given a charged hose line and various equipment, shall replace a simulated burst section of hose.

Skill Procedure: The instructor shall arrange for a hose line to be charged to normal operating pressure. The student will demonstrate replacing a center section of hose with two (2) sections of hose.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Restricts the flow of water by applying a hose clamp approximately 5 feet behind the coupling on the supply side of the good hose or calling for the hose line to be shut down at the pump panel	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Retrieves two sections of replacement hose	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Removes burst section of hose	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Replaces the burst hose section with two sections of replacement hose	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Organizes the hose to eliminate kinks	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Recharges the hose line by slowly releasing the hose clamp or call for the line to be charged from the pump panel	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Ensures there are no kinks in the hose line and opens the nozzle to bleed the air from the hose line	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Communicates the hose line is in operation	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #57

Advancing a Un-Charged Hose Line – Up or Down an Interior Stairway

Skill Objective: The student, given the necessary equipment, working as part of a team, and wearing full PPE, shall advance an un-charged 1 1/2” or larger hose line up or down a stairway.

Skill Instructions: Equipment shall be readily available to the student. The student will demonstrate advancing an un-charged hose line up or down a stairway.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows list 6 steps of the skill with checkboxes for Yes/No.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #58

Advancing a Charged Hose Line – Up or Down an Interior Stairway

Skill Objective: The student, given the necessary equipment, working as part of a team, and wearing full PPE, shall advance a charged 1 1/2" or larger hose line up or down a stairway.

Skill Instructions: Equipment shall be readily available to the student. The student will demonstrate advancing a charged hose line up or down a stairway.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows 1-6 detailing hose advancement steps.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #59

Advancing an Un-charged Hose Line – Up a Ladder and into a Window

Skill Objective: The student, given the necessary equipment, working as part of a team, and wearing full PPE, shall advance an un-charged 1 ½” or larger hose line up an extension ladder.

Skill Instructions: Equipment shall be readily available to the student. The student will demonstrate advancing an un-charged hose line up an extension ladder and make entry into a window.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Ensures hose line is laid out in a manner to prevent kinks and allows for easy advancement	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Positions other firefighters as needed	
3. Drapes the nozzle over their shoulder	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Directs other firefighters, as needed, to drape the hose over their shoulders, positioning themselves on the same side of the hose line	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Climbs ladder to appropriate position	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Lays the nozzle in the window and sounds the floor for stability	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Climbs into window and other fire fighters advance on the ladder until second fire fighter has entered the room	<input type="checkbox"/> Y <input type="checkbox"/> N
8. All fire fighters have secured themselves to the ladder, to assist in advancing the hose line	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Fire fighter nearest the top of the ladder secures the hose to the top rung of the ladder with appropriate equipment	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #60

Operating a Hose Line – Smooth Bore or Fog Nozzle

Skill Objective: The student, given the necessary equipment, working alone and working as part of a team, and wearing full PPE, shall operate a charged 1 ½” or larger hose line.

Skill Instructions: Equipment shall be readily available to the student. The student will demonstrate operating a charged hose.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>One Fire Fighter Method</u>	
1. Positions the hose so that it extends straight behind them for approximately 10 ft.	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Grabs the hose and stands facing the objective with feet positioned to form a solid base	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Holds the hose line with one hand behind the nozzle or grips the nozzle handle and the opposite hand on the nozzle shut-off valve, keeping it within arm’s length	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Prepares to absorb the reaction force of the nozzle, according to local SOPs, and then opens the nozzle valve fully and operates the nozzle flowing water to the objective	<input type="checkbox"/> Y <input type="checkbox"/> N
5. If using a fog nozzle, adjusts the fog nozzle, as necessary, to achieve desired stream as instructed by the instructor	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Always maintains control of the hose line with two hands	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Closes nozzle valve to stop the flow of water and preventing water hammer	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Two Fire Fighter Method</u>	
1. Grabs and holds the hose line with one hand behind the nozzle or grips the nozzle handle and the opposite hand on the nozzle shut-off valve, keeping it within arm’s length	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Positions second fire fighter, on the same side as them, and at least one arm’s length behind them and instructs them to grab the hose and hold it at approximately the same level they are	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Both fire fighters prepares to absorb the reaction force of the nozzle and then opens the nozzle valve fully and operates the nozzle flowing water to the objective	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #60

Operating a Hose Line – Smooth Bore or Fog Nozzle

Continued from previous page

4. If using a fog nozzle, adjusts the fog nozzle, as necessary, to achieve desired stream as instructed by the instructor	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Fire Fighter on the nozzle, always maintains control of the hose line with two hands	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Always maintains control of the hose line with two hands	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Closes nozzle valve to stop the flow of water and preventing water hammer	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #61

Advancing an Charged Hose Line – Up a Ladder and Operate the Hose Line

Skill Objective: The student, given the necessary equipment, working as part of a team, and wearing full PPE, shall advance a charged 1 ½” or larger hose line up an extension ladder and operator from the ladder.

Skill Instructions: Equipment shall be readily available to the student. The student will demonstrate advancing a charged hose line up an extension ladder and operating it from the ladder.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Ensures hose line is laid out in a manner to prevent kinks and allows for easy advancement	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Positions other firefighters as needed, ensuring the ladder is secured	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Climbs the ladder, carrying the nozzle, while other fire fighters feed the hose	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Climbs ladder to appropriate position and secures themselves to the ladder with an appropriate method	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Positions the nozzle through the rungs, extending it at least 1 foot beyond the rungs	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Secures the hose line to the ladder using appropriate equipment according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Opens the nozzle valve fully and operates the nozzle flowing water to the objective, keeping the valve within arm’s length	<input type="checkbox"/> Y <input type="checkbox"/> N
8. If using a fog nozzle, adjusts the fog nozzle, as necessary, to achieve desired stream as instructed by the instructor	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Always maintains control of the hose line with two hands	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Closes nozzle valve to stop the flow of water and preventing water hammer	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor’s Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Hose Operations & Hose Streams – NFPA 1001-2019, 4.3.10

Skill Sheet #62

Operating Large Hose Line – One Fire Fighter Method

Skill Objective: The student, given the necessary equipment, working as part of a team, and wearing full PPE, shall set up and operate a charged 2 ½” or larger hose line.

Skill Instructions: Equipment shall be readily available to the student. The student will demonstrate setting up and operating a charged large hose line.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Forms a large loop behind the nozzle to ensure hose does not kink	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Passes the nozzle beneath the loop so that the loop rests on the end of the hose approximately 2 feet behind the nozzle	<input type="checkbox"/> Y <input type="checkbox"/> N
3. If applicable to local SOPs, secures the loop at the crossover point	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Kneels or sits on the hose at the crossover point	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Holds the hose with one hand behind the nozzle and the other hand on the nozzle valve	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Opens the nozzle valve fully and operates the nozzle flowing water to the objective, keeping the valve within arm’s length	<input type="checkbox"/> Y <input type="checkbox"/> N
7. If using a fog nozzle, adjusts the fog nozzle, as necessary, to achieve desired stream as instructed by the instructor	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Always maintains control of the hose line with two hands	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Closes nozzle valve to stop the flow of water and preventing water hammer	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor’s Signature: _____ *Date:* _____



Hose Operations & Hose Streams – NFPA 1001-2019, 4.5.1

Skill Sheet #63

Cleaning and Inspecting Nozzles

Skill Objective: The student, given various nozzles, shall clean and inspect nozzles, noting any damage and maintenance required and placing back into a ready state.

Skill Instructions: Nozzles shall be readily available to the student. The student will demonstrate cleaning and inspecting nozzles.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
Cleaning	
1. Wearing all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Selects proper cleaning supplies per manufactures guidelines	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Washes nozzles and thoroughly rinses with clean water, ensuring there is no debris in the nozzle ends	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Dries nozzle thoroughly	<input type="checkbox"/> Y <input type="checkbox"/> N
Inspecting	
1. Inspects nozzle for damage (cracks or other damage)	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Checks the nozzle bail or handle for function by moving it to the “OPEN” and “CLOSED” position	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Checks the GPM setting control by moving it to all of the various GPM settings	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Checks fog rotating ring for function by rotating it	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Checks nozzle pattern adjustment for function by moving it to different wide fog, medium fog, straight stream, and flush settings	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Checks nozzle coupling gasket for defects, age, and ability to return to normal shape by pinching gasket between the thumb and index fingers	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Tags any nozzles with defects and out of service per local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 14 – Fire Suppression

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.3.7* Attack a passenger vehicle fire operating as a member of a team, given personal protective equipment, attack line, and hand tools, so that hazards are avoided, leaking flammable liquids are identified and controlled, protection from flash fires is maintained, all vehicle compartments are overhauled, and the fire is extinguished.

4.3.8* Extinguish fires in exterior Class A materials, given fires in stacked or piled and small unattached structures or storage containers that can be fought from the exterior, attack lines, hand tools and master stream devices, and an assignment, so that exposures are protected, the spread of fire is stopped, collapse hazards are avoided, water application is effective, the fire is extinguished, and signs of the origin area(s) and arson are preserved.

4.3.10* Attack an interior structure fire operating as a member of a team, given an attack line, ladders when needed, personal protective equipment, tools, and an assignment, so that team integrity is maintained, the attack line is deployed for advancement, ladders are correctly placed when used, access is gained into the fire area, effective water application practices are used, the fire is approached correctly, attack techniques facilitate suppression given the level of the fire, hidden fires are located and controlled, the correct body posture is maintained, hazards are recognized and managed, and the fire is brought under control.

4.3.14 Conserve property as a member of a team, given salvage tools and equipment and an assignment, so that the building and its contents are protected from further damage.

4.3.18 Turn off building utilities, given tools and an assignment, so that the assignment is safely completed.

4.3.19* Combat a ground cover fire operating as a member of a team, given protective clothing, SCBA (if needed), hose lines, extinguishers or hand tools, and an assignment, so that threats to property are reported, threats to personal safety are recognized, retreat is quickly accomplished when warranted, and the assignment is completed



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Suppression – NFPA 1001-2019, 4.3.7

Skill Sheet #64

Passenger Vehicle Fire

Skill Objective: The student, operating as a member of a team, shall extinguish a passenger vehicle fire, using appropriate PPE, 1 1/2" or larger hose lines, firefighting tools and equipment, and extinguishing agents.

Skill Instructions: The instructor shall provide live fire evolution training, utilizing a vehicle prop, for the student to extinguish. The instructor shall conduct this live fire training evolution in accordance with NFPA 1403 and NFPA 1500. The student shall bring under control and extinguish a vehicle fire.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows list 7 tasks for extinguishing a passenger vehicle fire.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Suppression – NFPA 1001-2019, 4.3.8

Skill Sheet #65

Class A Fires – Piles/Stacks, Unattached Structure and Storage Containers

Skill Objective: The student, operating as a member of a team, shall extinguish the following Class A fires (**Piles/Stacks, Unattached Structure and Storage Containers**), using appropriate PPE, 1 ½” or larger hose lines, firefighting tools and equipment, and extinguishing agents.

Skill Instructions: The instructor shall provide live fire training evolutions for the following three types of fires: Piles/Stacks, Unattached Structure and Storage Containers props, for the student to extinguish. The instructor shall conduct these live fire training evolutions in accordance with NFPA 1403 and NFPA 1500. **The student shall bring under control and extinguish the live fire of all 3 types of fires.**

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Wears all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Chooses and deploys the appropriate size hose line (1 ½” or larger) and checks for adequate water flow	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Cools the burning material before advancing the attack line	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Advances the attack line while protecting exposures	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Completes extinguishment of Class A fire	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Preserves any signs of origin and evidence of fire cause while conducting overhaul operations, extinguishing any hidden/smoldering fires	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Communicates and works with other attack team members	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Suppression – NFPA 1001-2019, 4.3.10

Skill Sheet #66

Interior Structure Fires – At Grade, Above Grade and Below Grade

Skill Objective: The student, operating as a member of a team, shall attack and extinguish the following interior structure fires (**At Grade, Above Grade and Below Grade**), using appropriate PPE, 1 ½” or larger hose lines, firefighting tools and equipment, and extinguishing agents.

Skill Instructions: The instructor shall provide live fire training evolutions for the following three types of interior structure fires: At Grade, Above Grade and Below Grade, for the student to extinguish. The instructor shall conduct these live fire training evolutions in accordance with NFPA 1403 and NFPA 1500. **The student shall bring under control and extinguish the live fire of all 3 types of fires.**

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Wears all appropriate PPE	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Chooses and deploys the appropriate size hose line (1 ½” or larger) and checks for adequate water flow	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Enters the structure using the correct body posture for the conditions encountered during all phases of the fire attack operation	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Descends/Ascends stairs (as applicable) safely and effectively	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Advances the attack line, locates fire and operates the hose line in a controlled manner for conditions encountered and for suppression of the fire	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Applies a sufficient amount of water to completely extinguish the fire	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Preserves any signs of origin and evidence of fire cause while conducting overhaul operations, extinguishing any hidden/smoldering fires	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Communicates and works with other attack team members	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor’s Signature: _____ **Date:** _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Suppression – NFPA 1001-2019, 4.3.19

Skill Sheet #67
Ground Cover Fire

Skill Objective: The student, operating as a member of a team, shall contain and extinguish a ground cover fire, using appropriate PPE, firefighting tools and equipment, and extinguishing agents.

Skill Instructions: The instructor shall provide live fire training evolutions of a ground cover fire, for the student to extinguish. The instructor shall conduct these live fire training evolutions in accordance with NFPA 1403 and NFPA 1500. **The student shall bring under control and extinguish the ground cover fire.**

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Wears all appropriate PPE, including respiratory protection as required by local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Identifies and verbalizes safe zones and escape routes	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Demonstrates the ability to determine exposure threats based on fire spread potential	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Constructs a fire line, ensuring vegetation and debris does not breach the line, with hand tools and equipment	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Extinguishes any fire with hand tools and equipment to protect exposures	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Maintains the integrity of an established fire line	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Extinguishes any fires with appropriate tools, extinguishers or hand lines as necessary	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Suppression – NFPA 1001-2019, 4.3.14

Skill Sheet #68

Operating a Sprinkler System Main Control Valve

Skill Objective: The student, given a sprinkler system, shall identify the main control valve and the proper procedure for closing and opening the valve without causing damage to the system.

Skill Instructions: The instructor shall locate a sprinkler system or a main control valve that can be used for this skill. If a sprinkler system is available and not in service, have the student locate and identify the type of main control valve. If the system is not available, then use a main control valve that is not part of a system. The student shall identify the type of valve and tell if it is open or closed. The student shall then operate the valve from open to closed and then back to the open position.

Student Name: _____

<i>Items to be checked</i>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Locates the control valve and indicates the type of the valve	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Indicates if the valve is open or closed	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Completely closes the control valve and then reopens the valve	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Indicates that valve should be locked in the open position	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Suppression – NFPA 1001-2019, 4.3.14

Skill Sheet #69

Stops the Flow of Water from an Activated Sprinkler

Skill Objective: The student, given a flowing, open sprinkler head, shall stop the flow of water using appropriate tools and methods. The student shall then identify the type and temperature classification of the sprinkler head.

Skill Instructions: The instructor shall set up a sprinkler head that has opened and is flowing water. The student shall stop the flow of water using appropriate tools and methods available for the purpose.

Student Name: _____

Table with 2 columns: Items to be checked, Competency Achieved. Rows list 4 tasks: 1. Wears all appropriate PPE, including eye protection; 2. Chooses the appropriate tools to stop the flow of water; 3. Climbs ladder to within reach of flowing sprinkler, securing themselves to the ladder; 4. Uses the chosen tools to adequately stop the flow of water.

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: [] Yes [] No

Instructor's Signature: _____ Date: _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Fire Suppression – NFPA 1001-2019, 4.3.18

Skill Sheet #70
Controlling Utility Services

Skill Objective: The student, given the proper tools and a house, building, or structure, shall demonstrate the proper procedures for shutting off gas and electric services.

Skill Instructions: The instructor shall provide the student a choice of tools needed. The student shall locate all utilities and simulate the shutting off of the valves or control devices for the utilities. Safety is emphasized during the simulation, including personal protective equipment.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Electricity</u>	
5. Wears all appropriate PPE, required by local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
6. States the electric should be disconnected/shut down by the power company	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Shuts off main breakers, if possible, securing panel according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Gas Meter/Gas Tank</u>	
8. Wears all appropriate PPE, required by local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Chooses correct tool(s)	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Completely shuts off valve and communicates utility is shut off, securing valve according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

Chapter 15 – Overhaul, Property Conservation, and Scene Preservation

Successful completion of the practical skills in this section is necessary to fulfill the requirements of the following sections of NFPA 1001-2019:

Fire Fighter I Standard

4.3.13 Overhaul a fire scene, given personal protective equipment, attack line, hand tools, a flashlight, and an assignment, so that structural integrity is not compromised, all hidden fires are discovered, fire cause evidence is preserved, and the fire is extinguished.

4.3.14 Conserve property as a member of a team, given salvage tools and equipment and an assignment, so that the building and its contents are protected from further damage.

5.5.1 Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

***Overhaul, Property Conservation and Scene Preservation –
NFPA 1001-2019, 4.3.14***

***Skill Sheet #71
Constructing a Water Chute***

Skill Objective: The student, working as a team of two (2), given a plastic tarp/salvage cover and various equipment, shall demonstrate the construction of a water chute.

Skill Instructions: The intent of this objective is to determine if the student can correctly demonstrate the proper method for constructing a water chute. The instructor will have the student construct a water chute both utilizing pike poles and without.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Fully spreads out the cover at the desired location, removing most creases and wrinkles	<input type="checkbox"/> Y <input type="checkbox"/> N
2. If utilizing pike poles, places pike poles at opposite ends of the cover with the pike extending off the end of the cover	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Roll the edges of the cover towards the center of the cover until there is one to three feet between the rolls	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Turns the cover over, keeping rolls in place	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Adjusts the chute to collect and channel water by elevating one end	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Extends the other end out a door or window or into a catchall	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY

FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

***Overhaul, Property Conservation and Scene Preservation –
NFPA 1001-2019, 4.3.14***

***Skill Sheet #72
Constructing a Catchall***

Skill Objective: The student, working as a team of two (2), given a salvage equipment, shall demonstrate the construction of a water catchall.

Skill Instructions: The students, working together, demonstrate the proper fire service method for constructing a water catchall. The skill should utilize a small or moderate sized cover.

Student Name: _____

<u><i>Items to be checked</i></u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Fully spreads out the cover at the desired location, removing most creases and wrinkles	<input type="checkbox"/> Y <input type="checkbox"/> N
2. As a team, rolls the edges of the cover inward approximately three (3) feet	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Each student, lays the ends of the side rolls over at a 90-degree angle to from the corners of the basin	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Each student, rolls an end into a tight roll on top of the side roll and form a projected flap	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Lifts the edge roll and tucks the end role to lock the corners	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



**Overhaul, Property Conservation and Scene Preservation –
 NFPA 1001-2019, 4.3.14**

Skill Sheet #73

Salvage Cover Rolls, Folds and Deployment

Skill Objective: The student, working as a team of two (2), given a salvage cover, shall demonstrate the following folds, rolls and deployment method: rolling the salvage cover for a one-fire fighter spread and deploying the salvage cover using a one-fire fighter method.

Skill Procedure: The instructor shall provide a salvage cover for the students to roll. The student will roll a salvage cover for a one-fire fighter deployment method and then one student will deploy the salvage cover. **The skill will be repeated for the other student to deploy the salvage cover.**

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Fold for a One-Fire Fighter Spread</u>	
1. Fully spreads out the cover at a desired location, removing most creases and wrinkles	<input type="checkbox"/> Y <input type="checkbox"/> N
2. As a team working on opposite sides of the cover, grasps the cover with one hand midway between the center and the edge to be folded	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Places the other hand on the cover as a pivot midway between the outside hand and the center	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Brings the fold over to the center of the cover, creating an inside fold and an outside fold	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Grasps the corner with the outside hand and place the other hand as a pivot on the cover over the outside fold	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Brings this outside edge over to the center, and place it on top of and in line with the previous placed fold	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Repeats steps 2 – 6 for the other half of the cover	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Straightens the folds and folds over about 12 inches at the end	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Both fire fighters, working from one end of the cover, starts by rolling and compressing end into tight compact roll, rolling towards opposite end	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Tucks in any wrinkles that form ahead of the roll and secures the roll according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>One-Fire Fighter Salvage Cover Deployment Method</u>	
1. Positions at one end of the objects to be covered	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Unrolls sufficient amount of cover and extends it to the floor covering the objects	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

***Overhaul, Property Conservation and Scene Preservation – NFPA
 1001-2019, 4.3.14***

Skill Sheet #73
Salvage Cover Rolls, Folds and Deployment

Continued from previous page

3. Unrolls toward the opposite end of the objects and lets the rest of the roll fall into place towards the floor	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Stands at one end of the cover and grasps the open edges, with one edge in each hand	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Opens the sides of the cover over the objects by snapping both hands up and out	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Repeats step 5 on the other end	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Tucks in all loose edges at the bottom	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



***Overhaul, Property Conservation and Scene Preservation –
 NFPA 1001-2019, 4.3.14***

Skill Sheet #74

Salvage Cover Rolls, Folds and Deployment

Skill Objective: The student, working as a team of two (2), given a salvage cover, shall demonstrate the following folds, rolls and deployment method: folding a salvage cover for a one-fire fighter spread, and deploying the salvage cover using a one-fire fighter method.

Skill Procedure: The instructor shall provide a salvage cover for the students to fold. The student will fold a salvage cover for a one-fire fighter deployment method and then one student will deploy the salvage cover. **The skill will be repeated for the other student to deploy the salvage cover.**

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Fold for a One-Fire Fighter Spread</u>	
1. Fully spreads out the cover at a desired location, removing most creases and wrinkles	<input type="checkbox"/> Y <input type="checkbox"/> N
2. As a team on opposite sides of the cover, grasps the cover with one hand midway between the center and the edge to be folded	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Places the other hand on the cover as a pivot midway between the outside hand and the center	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Brings the fold over to the center of the cover, creating an inside fold and an outside fold	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Grasps the corner with the outside hand and place the other hand as a pivot on the cover over the outside fold	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Brings this outside edge over to the center, and place it on top of and in line with the previous placed fold	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Repeats steps 2 – 6 for the other half of the cover	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Straightens the folds	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Both fire fighters, working from one end of the cover, grasps the cover and brings this end to a point just short of center	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Using one hand as a pivot, brings the folded end over and places it on top of the first fold	<input type="checkbox"/> Y <input type="checkbox"/> N
11. Repeats steps 9 and 10 for the other end, leaving approximately 4 inches between the two folds	<input type="checkbox"/> Y <input type="checkbox"/> N
12. Places one fold on top of the other for the completed fold	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



**Overhaul, Property Conservation and Scene Preservation – NFPA
 1001-2019, 4.3.14**

Skill Sheet #74

Salvage Cover Rolls, Folds and Deployment

Continued from previous page

<i>One-Fire Fighter Salvage Cover Deployment Method</i>	
1. Lays the folded cover on top of and near the center of the objects to be covered	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Unrolls sufficient amount of cover and extends it to the floor covering the objects	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Separates the cover at the first fold	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Separates the next fold and unfold it towards one end of the objects to be covered	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Grabs the end of the cover near the center with both hands and brings it into positions over the end of the object to be covered	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Repeats step 5 to cover the other end	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Standing at one end, grabs the open edges, with one edge in each hand and opens the sides of the cover over the objects by snapping both hands up and out	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Repeats step 7 on the other end	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Tucks in all loose edges at the bottom	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



**Overhaul, Property Conservation and Scene Preservation –
 NFPA 1001-2019, 4.3.14**

Skill Sheet #75

Salvage Cover Rolls, Folds and Deployment

Skill Objective: The student, working as a team of two (2), given a salvage cover, shall demonstrate the following folds, rolls and deployment method: folding a salvage cover for a two-fire fighter spread, and deploying the salvage cover using a two-fire fighter method.

Skill Procedure: The instructor shall provide a salvage cover for the students to fold. The student will fold a salvage cover for a two-fire fighter deployment method and then both students will deploy the salvage cover.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Fold for a Two-Fire Fighter Spread</u>	
1. Working as a team on opposite ends of the cover, stretch the cover lengthwise by grabbing at the center of the cover	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Pulls the cover tightly between them, while raising the center fold until the cover is off of the ground and shakes out the wrinkles to form the first fold	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Grabs the bottom corners with one hand and spreads the half-fold flat on the ground and removes any wrinkles	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Places one foot at the center of the fold creating a pivot and grabs the open-edge corners	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Stretches the part of the cover being folded tightly between each other and makes the quarter-fold over the foot to the folded edge	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Removes all wrinkles and one fire fighter carries their end to the opposite end and places it on the opposite end, maintaining alignment of the edges	<input type="checkbox"/> Y <input type="checkbox"/> N
7. While one fire fighter secures the cover from moving, other fire fighter removes all wrinkles	<input type="checkbox"/> Y <input type="checkbox"/> N
8. Both fire fighters positioned on each side of the cover, grabs the open end of the cover and places the other hand on the cover half way to center, folds the cover over the hand and places it just short of cent	<input type="checkbox"/> Y <input type="checkbox"/> N
9. Repeats step 8 for the other end of the cover	<input type="checkbox"/> Y <input type="checkbox"/> N
10. Places one fold on top of the other for the completed fold	<input type="checkbox"/> Y <input type="checkbox"/> N

Continued on next page



**Overhaul, Property Conservation and Scene Preservation – NFPA
 1001-2019, 4.3.14**

**Skill Sheet #75
 Salvage Cover Rolls, Folds and Deployment**

Continued from previous page

<i>Two-Fire Fighter Salvage Cover Deployment Method</i>	
1. Working as a team on opposite ends of the cover, lays the folded cover on the ground and unfolds cover to full length	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Lays the edge of the cover near the objects to be covered and grabs the end over the cover	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Makes several accordion folds in the inside hand and places the outside hand about midway down the end hem	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Places the inside foot on the corner of the cover to hold it in place	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Pulls the cover tightly between each other	<input type="checkbox"/> Y <input type="checkbox"/> N
6. Swings the folded part down, up and out in one sweeping motion in order to balloon the cover, while carrying the accordion folds across the object, guiding the cover into position as it floats over the object	<input type="checkbox"/> Y <input type="checkbox"/> N
7. Tucks in all loose edges at the bottom	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ Date: _____



**Overhaul, Property Conservation and Scene Preservation –
 NFPA 1001-2019, 4.3.14**

**Skill Sheet #76
 Locate and Extinguish Hidden Fires**

Skill Objective: The student, wearing all PPE, given various tools and equipment, shall demonstrate how to locate hidden fires. The student shall demonstrate how to locate structural members by sounding. The student shall demonstrate the proper extinguishing methods during overhaul operations.

Skill Instructions: The instructor shall provide a tools and equipment to the student in order to demonstrate searching for and extinguishing hidden fires. The student shall use each tool in a method that demonstrates their knowledge of the safe use of the tools while minimizing property damage.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Verifies overhaul operations can begin with IC	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Locates area(s) with potential hidden or smoldering fires by: a. Utilizing a thermal imager or other similar device, if available b. Observing fire area to detect smoking or smoldering materials c. Observing burn and smoke patterns	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Removes ceiling and/or wall coverings and insulation, minimizing damage when possible by: a. Beginning with the area closest to any hidden or smoldering fire b. Overhauling area until unburned structural materials are visible c. Preserving any potential evidence d. Removing from the structure any debris and stuffed materials, such as mattresses or large cushions, not essential for fire cause determination	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Completely extinguish hidden and smoldering fires with a hand line by: a. By using minimal water b. Ensuring that no hidden or smoldering fire remains	<input type="checkbox"/> Y <input type="checkbox"/> N
5. Preserves any signs of origin and evidence of fire cause while conducting overhaul operations, extinguishing any hidden/smoldering fires	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

***Overhaul, Property Conservation and Scene Preservation –
NFPA 1001-2019, 4.3.14***

Skill Sheet #77
Secure a Fire Damaged Structure

Skill Objective: Given the proper equipment and appropriate openings in a structure, the student, wearing full protective gear (without SCBA), shall use the appropriate materials to properly cover two of the openings listed to secure the structure.

Skill Instructions: The instructor shall find an appropriate structure or prop for the student to perform the skills. The instructor shall make available the equipment and materials to cover two of the openings listed. The student must demonstrate that the opening will be covered properly and that the building is secured.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
1. Identifies the opening to be covered	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Gathers tools, equipment and materials for securing the structure	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Covers or secures the following openings using the appropriate tools equipment and materials: a. Doors b. Windows c. Floor openings d. Roof openings e. Other openings, as necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Verifies that the building is secure	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor's Signature: _____ *Date:* _____



MISSOURI DIVISION OF FIRE SAFETY
FIRE FIGHTER I (NFPA 1001-2019) PRACTICAL SKILL BOOK

***Overhaul, Property Conservation and Scene Preservation –
 NFPA 1001-2019, 4.3.14***

Skill Sheet #78

Clean, Inspect and Maintain Salvage Covers

Skill Objective: The student given a salvage cover shall demonstrate how to clean, inspect and identify methods for repairing damaged salvage covers.

Skill Procedure: The student shall demonstrate cleaning of the cover when provided with broom, soap, brush, and water hose. The student shall demonstrate proper drying techniques and methods for repairing a damaged salvage cover.

Student Name: _____

<u>Items to be checked</u>	<i>Competency Achieved</i>
<i>If the student:</i>	
<u>Cleaning</u>	
1. Gathers tools, equipment and materials for cleaning salvage covers	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Lays the cover out flat and washes the salvage cover according to manufactures recommendations or local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Repeats on other side, if necessary	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Hangs to dry	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Inspecting</u>	
1. While cover is hanging, raises the cover at each and inspects the underside of the cover for light coming through holes and tears	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Inspects the grommets	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Inspects the sewn edges and seams for loose threads, tears and rips	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Mark all defects according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
<u>Repairing</u>	
1. Patch according to manufacturer’s guideline or local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
2. Tag out of service any covers with damage beyond local repair per local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N
3. Document inspections and maintenance according to local SOPs	<input type="checkbox"/> Y <input type="checkbox"/> N

Student MUST successfully be competent in each step listed to pass this skill

Student successfully achieved proficiency of this practical skill: Yes No

Instructor’s Signature: _____ **Date:** _____

