

Fire Safety

Merit Badge Workbook



This workbook can help you but you still need to read the merit badge pamphlet. This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor

Merit Badge Counselors may not require the use of this or any similar workbooks.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers. If a requirement says that you must take an action using words such as "discuss", "show", "tell", "explain", "demonstrate", "identify", etc, that is what you must do. No one may add or subtract from the official requirements found on <u>Scouting.org/meritbadges/</u>. The requirements were last revised on January 1, <u>2024</u> • This workbook was updated in <u>January 2024</u>.

Scout's Name:	Unit Date Started	
Counselor's Name:	Phone No.:	Email:

Please submit errors, omissions, comments or suggestions about this <u>workbook</u> to: <u>Workbooks@USScouts.Org</u> Comments or suggestions for changes to the <u>requirements</u> for the <u>merit badge</u> should be sent to: <u>Merit.Badge@Scouting.Org</u>

1. Do the following:

a. Demonstrate the technique of stop, drop, cover, roll, cover your face, and cool.

Explain how burn injuries can be prevented.

b. List the most frequent causes of burn injuries.

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Describe the options available for safely disposing of unwanted hazardous substances in your community.

2. Explain the concept of fire and name the parts of the fire tetrahedron. Name the products of combustion. Describe the life cycle of a fire.

Explain the concept of fire

Name the parts of the fire tetrahedron.

Name the products of combustion.

Describe the life cycle of a fire.v

3. Name the most frequent causes of fire in the home and give examples of ways they can be prevented. Include a discussion about fires caused by smoking in the home, cooking, candles, fireplaces, and electrical appliances.

- 4. Do the following:
 - a. Explain the four classifications of fire origin (accidental, natural, incendiary, or undetermined) and give an example of each.

Accidental

Example:
Natural
Example:
Incendiary
Example:
Undetermined
Example:
Describe how a fire classified as incendiary might lead to criminal prosecution of a person charged with arson.

b.

c. Explain some of the social, economic and environmental consequences that result from incendiary fires that damage or destroy structures and wildlands.

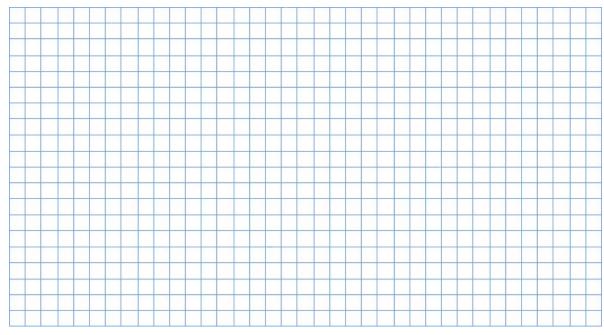
5. List the actions and common circumstances that cause seasonal and holiday related fires.

Explain how these fires can be prevented.

6. Conduct a home safety survey with the help of an adult. (See the Sample Home Safety Checklist at the end of this workbook.)

Then do the following:

- a. Draw a home fire escape plan, create a home fire-drill schedule, and conduct a home fire drill.
- Home fire escape plan.



Home fire-drill schedule

Conduct a home fire drill.

b. Identify the location of all smoke alarms in your home and confirm that none are more than 10 years old.

Test each smoke alarm and demonstrate regular maintenance of a smoke alarm.

c. Explain what to do when you smell natural gas and when you smell smoke.

Gas:	
Smoke	

d. Explain how you would report a fire to have the fire department respond.

e. Explain what fire safety equipment can be found in public buildings.

f. Explain who should use fire extinguishers and when these devices can be used.

g. Explain how to extinguish a stovetop pan fire.

h. Explain what fire safety precautions you should take when you are in a public building.

7. Do the following:

- a. Demonstrate lighting a match safely.
- Demonstrate lighting a match safely,
- the proper way to extinguish it and to dispose of it.
- b. Demonstrate the safe way to start a charcoal fire.
- C. Demonstrate how to safely light a candle.

Discuss with your counselor how to safely use candles.

8. Explain the difference between combustible and noncombustible liquids and between combustible and noncombustible fabrics.

Liquids:

	Fabrics:					
9.	Do the f	•	r counselor the safe way to refuel a liquid fueled engine, such as a lawn mower, weed eater,			
			farm machine, or an automobile with gas from an approved gasoline container.			
	🗌 b.	Demonstrate the fuel those device	safety factors, such as proper ventilation, for auxiliary heating devices and the proper way to s.			
10.	Do the f	·				
	а.		associated with outdoor and wildland fires and how they can be prevented.			
		Costs: How to prevent them:				
	🗌 b.	Demonstrate set	ting up and putting out a cooking fire.			
	C.		Demonstrate using a camp stove and lantern.			
	d.	Explain how to se	et up a campsite safe from fire.			

11. Visit a fire station.

Identify the various types of fire trucks and describe the functions of each.

Find out about the fire prevention activities in your community during your visit.

12. Determine if smoke detectors are required in all dwellings within your municipality. If so, explain which specific types are required. Tell your counselor what type of smoke detectors your house has or needs.

 Choose a fire safety related career that interests you and describe the level of education required and responsibilities of a person in that position.

Career:	
Education:	
Responsibilities:	

Tell why this position interests you.

You can download a complete copy of the Guide to Advancement from http://www.scouting.org/filestore/pdf/33088.pdf.

Sample Home Safety Checklist

Check safety steps that are being taken in your home. Write N/A if the item is not applicable. Items left blank may present a safety hazard. This list provides some sample safety steps you might take. See your Safety Merit Badge pamphlet and counselor for more information. Ask your parent or guardian before making any changes.

<u>Stairways, Halls, and Outdoor Steps</u>	<u>Bathroom</u>
Stairways with three or more steps have a strong handrail and slip resistant finish.	Tub and shower are equipped with strong handholds.
Stairways & halls are kept free from boxes, toys, shoes, brooms,	Tub floor has non-slip surface.
tools, and other tripping hazards.	Poisons and dangerous chemicals are marked, sealed shut in original containers, and out of reach of children.
Gates at top and bottom of stairs prevent children from falling.	Medicines are out of reach of children in childproof containers.
The head and foot of stairs have no small or loose rugs.	No one takes medicine in the dark.
Stair carpeting or covering is fastened securely.	Padroom
Stairways & halls have good lighting, controllable at each end.	Bedroom
<u>Kitchen</u>	Smoke alarm has fresh battery or secure electrical connection & is tested regularly.
Matches are kept where children cannot get them.	Carbon monoxide detector has fresh battery or secure electrical
Emergency numbers are posted next to the telephone, including	connection and is tested regularly.
911 and poison control.	Furniture placement for clear passage between bed and door.
Knives & sharp instruments are kept in knife drawers or holder.	Light switch or lamp is within easy reach from bed.
Can openers don't leave sharp edges on cans.	A night-light illuminates bedroom or hall.
Disinfectants & cleaning products are out of reach of children.	Bureau and dresser drawers are closed when not in use.
Pan handles are turned away from stove edges.	Bar across upper bunk beds helps prevent falls.
Spilled grease, water, or bits of food are wiped up immediately.	Children are taught not to lean against windows or screens.
Pot holders are located near the stove, within easy reach.	Low sill windows have sturdy screens to prevent children from
A dry chemical fire extinguisher is mounted near the stove.	falling out.
	-
Attic and Basement	Smoking in bed is prohibited.
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Stoves, Furnaces, and Heaters	Disconnect seldom-used appliances when not in use.
Stoves are away from curtains.	Household appliances are disconnected before repairs.
Stoves & furnace pipes and flues are inspected & cleaned	Light bulbs are installed in all lamp sockets.
annually.	All pull-type sockets have an insulating link.
Gas burners are properly adjusted and free from leaks.	Frayed or worn electric cords are promptly replaced.
Gas water and space heaters are equipped with vents or flues.	Long trailing cords are not in evidence.
Water heater or boiler has a safety valve & is checked yearly.	Cords are kept out from under rugs, doors, and furniture.
Water heater temperature is set below 120 degrees Fahrenheit	UA-approved extension cords are the proper size.
to reduce the risk of serious burns.	Children are taught never to touch electric sockets or fixtures.
Flames of gas burners are protected from drafts.	Fuses are adequate for the load and are not bypassed.
Insulating shield protects woodwork within 18" of furnace, etc.	Circuit breakers are labeled and not overloaded.
Keep flammable materials away from stoves, furnaces, etc.	
A wrench is stored near the shut-off valve of outside gas line.	General
The flue is opened before using the fireplace.	Home has smoke and Carbon Monoxie detectors, with at least
Porch, Yard, and Garage	one smoke detector in each bedroom, near the kitchen, and in the basement & garage.
Railings and banisters are sound and inspected periodically.	Everything has a place and is in its place.
Steps and walks are kept free from ice and snow.	Stepladders are in good repair and stored out of the way.
Yard/play space are free from holes, stones, glass, etc.	Window screens and storm windows are securely fastened.
Tools and dangerous articles are out of reach of children.	Guns are stored unloaded and in locked cases.
Dangerous products & chemicals are kept in original containers in	Guns and ammunition are stored separately.
locked storage areas.	Children are permitted to use only blunt-end scissors.
Wires and low fences are brightly painted or clearly marked.	Housework clothing has no drooping sleeves, sashes, or frills.
Wells, cisterns, and pits are kept securely covered.	Shoes worn for housework have low heels.
Disposable materials are not burned outside.	All shoes are in good repair.
An area is marked off in the garage for bicycles, wagons, etc.	Kerosene, gasoline, paint thinners, and other volatile materials
Lawn mower is equipped with proper safeguards.	are stored outside in special, clearly marked metal containers.
Workshop	Oil mops, dust rags, painting equipment, and other oily materials
Good ventilation exists, especially when sanding or painting.	are stored outside in open metal containers.
Safety goggles or face mask, and hearing protection are worn	Everyone turns on a light before entering a dark room.
when working with or around power tools, and an appropriate	Matches are extinguished before they're thrown away.
eyewash is available.	Children are never permitted to play with matches.
Baking soda is kept handy to neutralize acid burns.	Fire extinguishers are readily available and in good working order.
All electrical tools are either grounded with three-wire plugs or are double-insulated.	For Emergency
Work area is well lit & free of clutter, scraps, rags.	Know how to get emergency help (911, poison control, etc.).
All tools have a place & are in their place.	Be able to find water, gas, & electric shutoffs. Check annually.
Guards are in place on all power tools.	First aid kit approved by your doctor/American Red Cross.
A push stick is available for use with power saws.	Know basic first aid procedures.
Tools are unplugged when not in use and before changing	Have a fire escape plan from your home.
blades, servicing or repairing.	Emergency water supply.
Electrical Devices and Fixtures	Handheld flashlights readily available.
Electrical fixtures and appliances are located & used beyond	In earthquake-prone areas, make sure that the water heater and bookcases are bolted to the wall
arm's length of the sink, stove, tub, shower, or other grounded	DOUCASES ALE DOILED TO THE MAIL

metal unless outlet is protected by a ground-fault interrupter. Do not touch electrical fixtures or appliances with wet hands. Scout's Name: _____