



Fire Safety Merit Badge Workbook

SCOUTMASTER BUCKY

Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Fire Safety merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations.

<https://scoutmasterbucky.com/merit-badges/fire-safety/fire-safety-pamphlet.pdf>

<https://scoutmasterbucky.com/merit-badges/fire-safety/fire-safety-cpp.pdf>

REQUIREMENT 5d REQUIRES ADULT ASSISTANCE.

REQUIREMENT 5g REQUIRES PARENT / GUARDIAN CONFIRMATION.

REQUIREMENT 1a: Explain the concept of fire.

Notes:

REQUIREMENT 1b: Name the parts of the fire tetrahedron.





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REQUIREMENT 1b: Name the products of combustion.

Notes:

REQUIREMENT 1c: Describe the life cycle of a fire.

Notes:



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REQUIREMENT 1d: Explain the three methods of heat transfer.

Method #1:

Method #2:

Method #3:



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REQUIREMENT 2a: Explain the different classes of fires.	
	
	
	
	
	



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REQUIREMENT 2b: Identify the different classes of fire extinguishers and which should be used for each class of fire.





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REQUIREMENT 2c: Demonstrate how to use a fire extinguisher and a fire blanket.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

REQUIREMENT 3a: Explain and demonstrate the technique of stop, drop, roll, cool, and call.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

Notes:

REQUIREMENT 3b: Describe how clothing fires occur.

Notes:

REQUIREMENT 3b: Describe how to prevent clothing fires.

Notes:



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REQUIREMENT 3b: Describe how clothing can prevent or contribute to burn injuries.

Prevention:

Contribute:

REQUIREMENT 3c: Identify the most frequent causes of burn injuries and how to prevent them.

CAUSE #1:

Cause:

Prevention:

CAUSE #2:

Cause:

Prevention:



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CAUSE #3:

Cause:

Prevention:

CAUSE #4:

Cause:

Prevention:

CAUSE #5:

Cause:

Prevention:



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REQUIREMENT 3d: Review the prevention of, symptoms and signs of, and treatment of airway burns and carbon monoxide (CO) poisoning.

Prevention:

Symptoms and Signs:

Treatment:



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

NATURAL:

Explanation:

Example:

ACCIDENTAL:

Explanation:

Example:

INCENDIARY:

Explanation:

Example:



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UNDETERMINED:

Explanation:

Example:

REQUIREMENT 4b: Describe how a fire classified as incendiary might lead to criminal prosecution of a person charged with arson.

Notes:



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REQUIREMENT 5a: Describe how to prevent the frequent causes of home fires, including unattended cooking, electricity, smoking, clothes dryers, and rechargeable batteries.

UNATTENDED COOKING:

Prevention:

ELECTRICITY:

Prevention:

SMOKING:

Prevention:

CLOTHES DRYERS:

Prevention:

RECHARGEABLE BATTERIES:

Prevention:



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REQUIREMENT 5b: Describe how to prevent frequent causes of seasonal and holiday-related home fires, including fires related to home heating, holiday trees, candles, and fireworks.

HOME HEATING:

Prevention:

HOLIDAY TREES:

Prevention:

CANDLES:

Prevention:

FIREWORKS:

Prevention:



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REQUIREMENT 5c: Demonstrate how to safely light and extinguish a candle.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

REQUIREMENT 5c: Discuss with your counselor, then with your family, how to safely use candles.

Notes:

REQUIREMENT 5d: Using the Home Fire Safety Checklist in the [Fire Safety Merit Badge Pamphlet](#) or one approved by your counselor, and with the help of an adult, inspect a home (or a similar building near where you live or at a camp) for fire safety hazards. Present your completed checklist to your counselor and discuss your findings.

ADULT ASSISTANCE: IS REQUIRED.

Adult's Name

Phone or Email

Adult's Signature

Date

☐

*assisted with home /
building inspection*

Notes:



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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

Stairways, Halls, and Outdoor Steps

- ☐ Stairways with three or more steps have a strong handrail.
- ☐ Stairs/halls are kept free from boxes, toys, brooms, tools, etc.
- ☐ Gates at top and bottom of stairs prevent children from falling.
- ☐ The head and foot of stairs have no small or loose rugs.
- ☐ Stair carpeting or covering is fastened securely.
- ☐ Stairways & halls have good lighting, controllable at each end.

Kitchen

- ☐ Matches are kept where children cannot get them.
- ☐ Knives & sharp instruments are kept in knife drawers or holder.
- ☐ Can openers don't leave sharp edges on cans.
- ☐ Disinfectants & cleaning products are out of reach of children.
- ☐ Pan handles are turned away from stove edges.
- ☐ Spilled grease, water, or bits of food are wiped up immediately.
- ☐ Pot holders are within easy reach.
- ☐ A fire extinguisher is mounted near the stove.

Bathroom

- ☐ Tub and shower are equipped with strong handholds.
- ☐ Tub floor has non-slip surface.
- ☐ Poisons are marked, sealed shut, and out of reach of children.
- ☐ Medicines are out of reach of children in childproof containers.
- ☐ No one takes medicine in the dark.

Living Room and Dining Room

- ☐ Furniture is placed to allow easy passage in an emergency.
- ☐ Before bedtime, furniture placement is checked for orderliness.
- ☐ Furniture and woodwork are solid, in good repair, and free from.
- ☐ Fireplace screen fits snugly.
- ☐ Rugs are fastened or laid on non-slip pads.
- ☐ Rugs are kept from curling at their edges.
- ☐ Wax on floors is thoroughly buffed.
- ☐ Fire in fireplace is extinguished at bedtime.
- ☐ Candles are in stable holders and fully extinguished after use.

Bedroom

- ☐ Smoke alarm has fresh battery or electrical connection & is tested regularly.
- ☐ Carbon monoxide detector has fresh battery or electrical connection and is tested regularly.
- ☐ Furniture placement for clear passage between bed and door.
- ☐ Light switch or lamp is within easy reach from bed.
- ☐ A night-light illuminates bedroom or hall.
- ☐ Bureau and dresser drawers are closed when not in use.
- ☐ Bar across bunk beds helps prevent falls.
- ☐ Children are taught not to lean against windows or screens.
- ☐ Sturdily screen low windows to prevent children from falling.
- ☐ Smoking in bed is prohibited.
- ☐ Gas and electric heating devices are turned off at bedtime.

Nursery

- ☐ Bars on cribs are closely spaced.
- ☐ Crib is approved by Consumer Products or similar.
- ☐ Crib is free from sharp edges or corners.
- ☐ Sleeping garments and covers keep baby warm without danger of smothering.
- ☐ Pillows are kept out of bassinet or crib.
- ☐ No thin, plastic material is in or near the crib.
- ☐ Children are taught not to give marbles, etc. to younger children.
- ☐ Toys are sturdy & have no sharp edges.
- ☐ Nontoxic paint is used on baby furniture and toys.
- ☐ All houseplants are nonpoisonous.

Stoves, Furnaces, and Heaters

- ☐ Stoves are away from curtains.
- ☐ Stoves & furnaces are inspected & cleaned annually.
- ☐ Gas burners are properly adjusted and free from leaks.
- ☐ Gas water and space heaters are equipped with vents or flues.
- ☐ Water heater or boiler has a safety valve & is checked yearly.
- ☐ Flames of gas burners are protected from drafts.
- ☐ Insulating shield protects woodwork within 18" of furnace, etc.
- ☐ Keep flammable materials away from stoves, furnaces, etc.
- ☐ A wrench is stored near the shut-off valve of outside gas line.

Attic and Basement

- ☐ Ladder is strong, solid, and sturdily constructed.
- ☐ Stairway is sturdy and well lit.
- ☐ Walls and beams are free from protruding nails.
- ☐ Fuses or circuit breakers are the proper size.
- ☐ Rubbish & flammable materials are in covered metal cans.
- ☐ Wastepaper is kept away from furnace and stairs.

Porch, Yard, and Garage

- ☐ Railings and banisters are sound and inspected periodically.
- ☐ Steps and walks are kept free from ice and snow.
- ☐ Yard/play space are free from holes, stones, glass, etc.
- ☐ Tools and dangerous articles are out of reach of children.
- ☐ Dangerous products & chemicals are kept in original containers in locked storage areas.
- ☐ Wires and low fences are brightly painted or clearly marked.
- ☐ Wells, cisterns, and pits are kept securely covered.
- ☐ Disposable materials are not burned outside.
- ☐ An area is marked off in the garage for bicycles, wagons, etc.
- ☐ Lawn mower is equipped with proper safeguards.

Workshop

- ☐ Good ventilation exists, especially when sanding.
- ☐ Safety goggles and/or face mask are available, with eyewash.
- ☐ Baking soda is kept handy to neutralize acid burns.
- ☐ All electrical tools are either three-wire or double-insulated.
- ☐ Work area is well lit & free of clutter, scraps, and rags.
- ☐ All tools have a place & are in their place.
- ☐ Guards are in place on all power tools.
- ☐ A push stick is available for use with power saws.

Electrical Devices and Fixtures

- ☐ Electrical fixtures and appliances are protected by a ground-fault interrupter.
- ☐ Do not touch electrical fixtures or appliances with wet hands.
- ☐ Disconnect seldom-used appliances when not in use.
- ☐ All pull-type sockets have an insulating link.
- ☐ Household appliances are disconnected before repairs.
- ☐ Unused, open, screw-type sockets are plugged closed.
- ☐ Frayed or worn electric cords are promptly replaced.
- ☐ Long trailing cords are not in evidence.
- ☐ Cords are kept out from under rugs, doors, and furniture.
- ☐ UA-approved extension cords are the proper size.
- ☐ Children are taught never to touch electric sockets or fixtures.
- ☐ Fuses are adequate for the load and are not bypassed.
- ☐ Circuit breakers are not overloaded.

General

- ☐ At least one smoke detector in each bedroom & garage.
- ☐ Everything has a place and is in its place.
- ☐ Stepladders are in good repair and stored out of the way.
- ☐ Window screens and storm windows are securely fastened.
- ☐ Guns are stored unloaded and in locked cases.
- ☐ Guns and ammunition are stored separately.
- ☐ Children are permitted to use only blunt-end scissors.
- ☐ Housework clothing has no drooping sleeves, sashes, or frills.
- ☐ Shoes worn for housework have low heels.
- ☐ All shoes are in good repair.
- ☐ Kerosene, gasoline, and other volatile materials are stored outside in special, clearly marked metal containers.
- ☐ Rags, mops, painting equipment, and other oily materials are stored outside in open metal containers.
- ☐ Everyone turns on a light before entering a dark room.
- ☐ Matches are extinguished before they're thrown away.
- ☐ Children are never permitted to play with matches.
- ☐ Fire extinguishers are readily available.

For Emergency

- ☐ Know how to get emergency help (911, poison control, etc.).
- ☐ Be able to find water, gas, & electric shutoffs. Check annually.
- ☐ First aid kit approved by your doctor/American Red Cross.
- ☐ Know basic first aid procedures.
- ☐ Have a fire escape plan from your home.
- ☐ Emergency water supply.
- ☐ Handheld flashlights readily available.



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REQUIREMENT 5f: Demonstrate maintenance of smoke and CO alarms to your counselor.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

REQUIREMENT 5f: Review plans to replace expired alarms (smoke and CO).

Notes:

REQUIREMENT 5g: Develop a home fire-escape plan and a fire-drill schedule with your family.

Home Fire-Escape Plan:

Fire-Drill Schedule:




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REQUIREMENT 5g:

Draw a floor plan of your home with exits marked and a map showing your family meeting point, and conduct a home fire drill.





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REQUIREMENT 5g: Conduct a home fire drill.

PARENT/GUARDIAN CONFIRMATION: IS REQUIRED.

Date of Home Fire Drill:

Notes:

Parent's / Guardian's Name

Phone or Email

Parent's / Guardian's Signature

Date ☐ confirmed

REQUIREMENT 5h: Explain what to do and what not to do if you smell natural gas

What to Do:

What NOT to Do:



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REQUIREMENT 5h: Explain what to do and what not to do if you smell smoke.

What to Do:

What NOT to Do:

REQUIREMENT 5i: Explain how you would report a fire to have the fire department respond.

Notes:



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REQUIREMENT 6a: Explain what flammable and combustible liquids are commonly used in homes and how to safely store them.

Notes:

REQUIREMENT 6b: Describe the safe way to refuel a liquid-fueled engine, such as a lawn mower, outboard motor, farm machine, or automobile with fuel from an approved container.

Notes:



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REQUIREMENT 6c: Describe the options available for safely disposing of unwanted flammable, combustible, and hazardous substances in your community.

Notes:

REQUIREMENT 7a: Explain how public buildings are designed for fire safety.

Notes:



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REQUIREMENT 7b: Explain what fire safety systems and equipment can be found in public buildings.

Notes:

REQUIREMENT 7c: Explain what fire safety precautions you should take when you are in a public building.

Notes:



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REQUIREMENT 8a: Explain how the Leave No Trace Seven Principles apply to camping fires.



THE 7 PRINCIPLES
of Leave No Trace

1. Plan Ahead & Prepare
2. Travel & Camp on Durable Surfaces
3. Dispose of Waste Properly
4. Leave What You Find
5. Minimize Campfire Impacts
6. Respect Wildlife
7. Be Considerate of Other Visitors

Notes:

REQUIREMENT 8b: Demonstrate lighting a match safely, the proper way to extinguish it, and to dispose of it.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

REQUIREMENT 8b: Explain the similarities and differences between safety matches and strike-anywhere matches.

Notes:



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REQUIREMENT 8c: Demonstrate making sparks with flint and steel or with a ferro rod and catching a spark to create a flame. Extinguish the flame safely using one of principles of the fire tetrahedron.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

REQUIREMENT 8c: Explain how to make sparks with flint and steel or with a ferro rod and catching a spark to create a flame.

Notes:

REQUIREMENT 8d: Demonstrate the safe way to start a charcoal fire.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

REQUIREMENT 8e: Describe three common campsite fire lays.

Fire Lay #1:

Fire Lay #2:

Fire Lay #3:



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REQUIREMENT 8e: Collect, prepare, and set up tinder, kindling, and fuel for a campfire following the Leave No Trace Seven Principles. Ignite your fire lay and safely extinguish your fire.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

REQUIREMENT 8f: Demonstrate using a camp stove.

Consider using the [Fire Safety Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

REQUIREMENT 8g: Explain how to set up and keep a campsite safe from fire.

Notes:



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REQUIREMENT 8h:

Develop a lesson plan to teach a fire safety skill or topic, such as lighting a candle or a match or a charcoal fire or a lantern or a camp stove or using flint and steel or setting up a fire lay. Review your lesson plan with your counselor. Teach your skill or topic to one or more Scouts using the EDGE method.

Selected Fire Safety Skill or Topic:

Notes:



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REQUIREMENT 9a: List causes of wildland fires and ways to prevent them.	
CAUSE #1:	
Cause:	
Prevention:	
CAUSE #2:	
Cause:	
Prevention:	
CAUSE #3:	
Cause:	
Prevention:	



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REQUIREMENT 9b: Explain the social, economic, and environmental consequences of wildland fires.

Social:

Economic:

Environmental:



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DO ONE OF THE FOLLOWING (10A or 10B) FOR REQUIREMENT 10

REQUIREMENT 10a: Visit a fire station in-person.

Fire Station Location:

Date of Visit and who you met with:

REQUIREMENT 10a: Identify the various types of fire service vehicles.

VEHICLE #1:

Type:

Notes:

VEHICLE #2:

Type:

Notes:

VEHICLE #3:

Type:

Notes:



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VEHICLE #4:	
Type:	
Notes:	
VEHICLE #5:	
Type:	
Notes:	
REQUIREMENT 10a:	From the firefighters you meet during your visit, learn about the fire prevention activities in your community and about their careers. Discuss with your counselor what you learned during your tour and interviews.
Notes:	



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REQUIREMENT 10b: Identify three career opportunities that would use skills and knowledge in the field of fire safety.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

REQUIREMENT 10b: Pick one and research the training, education, certification requirements, experience, and expenses associated with entering the field.

Selected Career Opportunity:

Training Requirements:

Education Requirements:

Certification Requirements:

Experience Requirements:



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Expenses Associated With:

REQUIREMENT 10b: Research the prospects for employment, starting salary, advancement opportunities and career goals associated with this career.

Prospects for Employment:

Starting Salary:

Advancement Opportunities:

Career Goals:

REQUIREMENT 10b: Discuss what you learned with your counselor and whether you might be interested in this career.

Notes: