



SCOUTMASTER BUCKY

Wildland Fire Management Merit Badge Workbook

ScoutmasterBucky.com or ScoutmasterBucky@yahoo.com or 612-483-0665

PLEASE NOTE THERE IS NO WILDLAND FIRE MANAGEMENT MERIT BADGE PAMPHLET

Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Wildland Fire Management merit badge class preparation pages for clarifications, insights, and expectations. These resources are available here:

<https://scoutmasterbucky.com/merit-badges/wildland-fire-management/>

REQUIREMENT 9C REQUIRES COUNSELOR APPROVAL.

REQUIREMENTS 9 AND 11 MAY REQUIRE PARENT / GUARDIAN PERMISSION.

REQUIREMENT 1: Research and discuss with your counselor the history of wildland fire, its suppression, prevention, and management in the United States.

Notes:

REQUIREMENT 2: Research the harm caused by wildfire in the United States, including annual acres burned for the past three years. Discuss with your counselor.

Notes:



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REQUIREMENT 2a: Discuss the negative impacts that wildfire has on commercial forest products.

Notes:

REQUIREMENT 2b: Discuss the negative impacts that wildfire has on fish and wildlife habitat.

Notes:

REQUIREMENT 2c: Discuss the negative impacts that wildfire has on soil and water.

Notes:



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REQUIREMENT 2d: Discuss the negative impacts that wildfire has on recreation and public use.

Notes:

REQUIREMENT 2e: Discuss the negative impacts that wildfire has on homes, communities, and human resources.

Homes:

Communities:

Human Resources:



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REQUIREMENT 2f: Discuss the negative impacts that wildfire has on air quality and public health.

Notes:

REQUIREMENT 3a: Discuss with your counselor how prescribed fire is used to accomplish fuel reduction.

Notes:



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REQUIREMENT 3b: Discuss with your counselor how prescribed fire is used to accomplish fish and wildlife habitat enhancement.

Notes:

REQUIREMENT 3c: Discuss with your counselor how prescribed fire is used to accomplish ecosystem restoration.

Notes:



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REQUIREMENT 3d: Discuss with your counselor how prescribed fire is used to accomplish forest regeneration.

Notes:

REQUIREMENT 3e: Discuss with your counselor how prescribed fire is used to accomplish insect and disease control.

Notes:



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REQUIREMENT 4a1: Wildfire Prevention: Discuss with your counselor the main causes of wildfire in the United States.

Notes:

REQUIREMENT 4a2: Wildfire Prevention: Discuss with your counselor how you can prevent human caused wildfires in your community and on outings with your unit.

Notes:



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REQUIREMENT 4b1: Wildfire Mitigation: Discuss with your counselor the wildland-urban interface.

Notes:

REQUIREMENT 4b2: Wildfire Mitigation: Discuss with your counselor defensible space and how homes and communities in the wildland-urban interface can be protected from wildfire.

Notes:



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REQUIREMENT 5a: Discuss with your counselor how the fire environment affects wildland fire behavior.

Notes:

REQUIREMENT 5a: Include examples of the influences of weather, topography, and fuel.

Weather:

Topography:

Fuel:



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REQUIREMENT 5b: Explain how a wildfire can be suppressed by removing heat, fuel, or oxygen.

Removing Heat:

Removing Fuel:

Removing Oxygen:



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REQUIREMENT 5c: Draw a diagram to illustrate the parts of a wildfire.

REQUIREMENT 6a: Discuss with your counselor the personal protective equipment used by wildland firefighters and its use.

Notes:



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REQUIREMENT 6b: Discuss the following with your counselor, including why each is an important consideration for maintaining personal safety and situational awareness during wildland fire suppression activities:

Notes:

REQUIREMENT 6b1: 10 Standard Firefighting Orders



Keep informed on fire weather conditions and forecasts



Know what your fire is doing at all times



Base all actions on current and expected behavior of the fire



Identify escape routes and safety zones, and make them known



Post lookouts when there is possible danger



Be alert. Keep calm. Think clearly. Act decisively



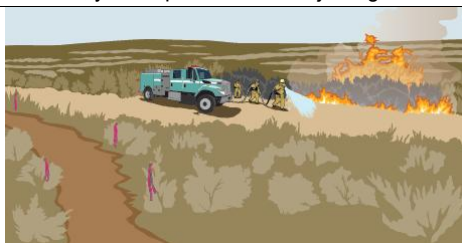
Maintain prompt communications with your forces, your supervisor, and adjoining forces



Give clear instructions and be sure they are understood



Maintain control of your forces at all times



Fight fire aggressively, having provided for safety first



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REQUIREMENT 6b2: 18 Watch Out Situations



Fire not scouted and sized up



In country not seen in daylight



Safety zones and escape routes not identified



Unfamiliar with weather and local factors influencing fire behavior



Uninformed on strategy, tactics, and hazards



Instructions and assignments not clear



No communication link with crew members or supervisor



Constructing line without safe anchor point



Building fireline downhill with fire below



Attempting frontal assault on fire



Unburned fuel between you and fire



Cannot see main fire; not in contact with someone who can



On a hillside where rolling material can ignite fuel below



Weather becoming hotter and drier



Wind increases and/or changes direction



Getting frequent spot fires across line



Terrain and fuels make escape to safety zones difficult



Taking a nap near fireline



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REQUIREMENT 6b3: Lookouts, Communication, Escape Routes, and Safety Zones (LCES)

Lookouts

- Have experience to recognize potential threats
- Be decisive
- Communicate clearly
- Be in a position to see potential threats and the entire crew
- Be in a safe location

Communications

- Have a communication plan
- Command to retreat must be clearly understood by all

Escape Routes

- Easily traveled and lead away from the fire, directly to the safety zone
- If there is cut-off potential, two routes should be planned and discussed
- Establish new escape routes as the effectiveness diminishes

Safety Zones

- Locations of adequate refuge from advancing fire
- Large enough for all who might use them
- Located for effectiveness
- Large enough for protection without a fire shelter.:



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REQUIREMENT 7a: Alone or with a small team, using the diagram you created in Requirement 5(c) or a map of a wildfire, and tokens to represent firefighting resources, demonstrate the following wildland fire suppression tactics. Explain under which conditions each tactic would be used:

REQUIREMENT 7a1: Direct attack

Explanation of Tactic:

Under which conditions they would be used to achieve objectives:

Diagrams (if necessary):



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REQUIREMENT 7a2: Indirect attack

Explanation of Tactic:

Under which conditions they would be used to achieve objectives:

Diagrams (if necessary):



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REQUIREMENT 7a3: Minimum impact suppression tactics

Explanation of Tactic:

Under which conditions they would be used to achieve objectives:

Diagrams (if necessary):



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REQUIREMENT 7a4: Use of hand crews, machinery, and aircraft

Explanation of Tactic:

Under which conditions they would be used to achieve objectives:

Diagrams (if necessary):



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REQUIREMENT 7a5: Mop-up

Explanation of Tactic:

Under which conditions they would be used to achieve objectives:

Diagrams (if necessary):



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REQUIREMENT 7a6: Repair and restoration

Explanation of Tactic:

Under which conditions they would be used to achieve objectives:

Diagrams (if necessary):



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REQUIREMENT 7b: Draw a diagram of the Incident Command System.

REQUIREMENT 7b: Alone or with your team, explain the responsibilities of the Command and General Staff positions on a wildfire incident.

Notes:



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REQUIREMENT 8a: Demonstrate the use of three hand tools unique to wildland fire suppression. Use one of these tools to demonstrate how to construct a fireline.

HAND TOOL #1:

Name:

How It Is Used:

HAND TOOL #2:

Name:

How It Is Used:



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HAND TOOL #3:

Name:

How It Is Used:

Fireline Construction (tool used and how the fireline was built):

REQUIREMENT 8b: Discuss seven other tools, equipment, or apparatus that are unique to wildland fire suppression and explain how these resources are used.

TOOL, EQUIPMENT, APPARATUS #1:

Name:

How Used:



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TOOL, EQUIPMENT, APPARATUS #2:

Name:

How Used:

TOOL, EQUIPMENT, APPARATUS #3:

Name:

How Used:

TOOL, EQUIPMENT, APPARATUS #4:

Name:

How Used:



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TOOL, EQUIPMENT, APPARATUS #5:

Name:

How Used:

TOOL, EQUIPMENT, APPARATUS #6:

Name:

How Used:

TOOL, EQUIPMENT, APPARATUS #7:

Name:

How Used:



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DO ONE OF THE FOLLOWING (9A, 9B, 9C, 9D, OR 9E) FOR REQUIREMENT 9

REQUIREMENT 9a: Develop a fire readiness plan for a wildland area with which you are familiar. The plan should include a map showing available resources, water supplies, natural and manmade barriers, and access. The plan should discuss fuel loads, available fire apparatus, structure protection needs, values at risk, medical and evacuation considerations and potential fire suppression tactics.

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REQUIREMENT 9b: Visit with a state or federal forestry official or your local fire warden. Discuss the causes of and types of wildland fire that occur in your area. Discuss the prime fire season(s) in your area. Identify the agency responsible for wildland fire suppression in your area. Discuss what you learned with your counselor.

Name, Title, and Organization they Represent with whom you Visited:

Date, And Location of Visit:

Causes of and types of wildland fire that occur in your area:

Prime fire season(s) in your area:

Identify the agency responsible for wildland fire suppression in your area:

Notes:



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REQUIREMENT 9c: Conduct a Firewise assessment of a home or a building in the wildland-urban interface, which could include a Scout camp building or facility. Identify potential risks and fire hazards. With your counselor's approval, complete a project to reduce the wildfire risk and increase the preparedness of the building. Write a brief report about what you did and learned from the assessment and project.

COUNSELOR APPROVAL: IS REQUIRED.

Counselor's Name

Phone or Email

Counselor's Signature

Date

☐

approved

Notes:



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REQUIREMENT 9d: Meet with a Fire Prevention Specialist or a local fire official to learn about fire prevention efforts in your community. From what you learned, prepare a fire prevention message (skit, video, or billboard concept) and share with your counselor and troop (or other group approved by your counselor).

Name, Title, and Organization of the Person You Met:

Date and Location of Meeting:

Your Fire Prevention Message (skit, video, or billboard concept):

Shared With (troop or approved group) and Date:



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REQUIREMENT 9e: Meet with a meteorologist or someone familiar with fire weather and discuss the fire weather concerns and typical fire seasons that exist in your area. Discuss the conditions that lead to a Fire Weather Watch or a Red Flag Warning. Discuss what you learned with your counselor.

Name, Title, and Organization of the Person You Met:

Date and Location of Meeting:

Fire Weather Concerns and Typical Fire Seasons in Your Area:

Conditions That Lead to a Fire Weather Watch or a Red Flag Warning:



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REQUIREMENT 10: Research an historic catastrophic wildland fire incident that occurred in the United States. Discuss with your counselor and/or your troop or a group approved by your counselor the conditions that led to the incident, how the incident was managed, and how the incident could have been prevented. Explain what lessons were learned and how this incident affected future fire suppression policy or suppression tactics.

Selected Historic Catastrophic Wildland Fire Incident:

Conditions That Led to the Incident:

How the Incident Was Managed:

How the Incident Could Have Been Prevented:

Lessons Learned and Effect on Future Fire Suppression Policy or Tactics:

REQUIREMENT 11: Explore careers related to this merit badge. Research one career to learn about the training and education needed, costs, job prospects, salary, job duties, and career advancement. Your research methods may include - with your parent or guardian's permission - an internet or library search, an interview with a professional in the field, or a visit to a location where people in this career work.

Selected Career Opportunity:



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PARENT / GUARDIAN PERMISSION: IS REQUIRED.

Parent / Guardian's Name

Phone or Email

Parent / Guardian's Signature

Date

☐

permission

Training Requirements:

Education Requirements:

Costs:

Job Prospects:



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Salary:

Job Duties:

Career Advancement:

REQUIREMENT 11: Discuss with your counselor both your findings and what about this profession might make it an interesting career.

Notes: