

Prerequisites

Failure to complete prerequisites may result in a partial being issued

American Heritage

Requirement #3C: (Plus Read the Declaration of Independence)

Research your family's history. Find out how various events and situations in American history affected your family. If your family immigrated to America, tell the reasons why. Share what you find with your counselor.

American Labor

Requirement #2:

With your counselor's and parent or guardian's approval and permission, visit the office or attend a meeting of a local union, a central labor council, or an employee organization, or contact one of these organizations via the internet. Then do the following:

- (a) Find out what the organization does.
- (b) Share the list of issues and concerns you made for requirement 1. Ask the people you communicate with which issues are of greatest interest or concern to them and why.
- (c) Draw a diagram showing how the organization is structured, from the local to the national level, if applicable.

Requirement #5:

Do ONE of the following:

- (b) Prepare an exhibit, a scrapbook, or a computer presentation, such as a slide show, illustrating three major achievements of the American labor movement and how those achievements affect American workers.

Art

Requirement #7:

Find out about three career opportunities in art. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.

Automotive Maintenance

Please print out the merit badge workbook.

Requirement #8:

Please diagram the parts of the electrical system. (Explanation will be in class).

Requirement #9:

Please diagram the drive train. (Explanation will be in class).

Continued on next page...

Requirement #11:

Determine the value of three different vehicles you are interested in purchasing. One must be new, and one must be used; the third can be new or used. For each vehicle find out the requirements and cost of automobile insurance to include basic liability and options for collision, comprehensive, towing, and rental car. (The operation/maintenance chart will be completed in class).

Requirement #12:

Find out about three career opportunities in the automotive industry. Pick one and find out about the education, training and experience required for this profession.

Part of this class will be held outdoors so dress accordingly.

Chess

Requirement #3:

Demonstrate to your counselor that you know each of the following. Then, using the EDGE method to teach someone (preferably another Scout) who does not know how to play chess:

- (a) The name of each chess piece
- (b) How to set up a chessboard
- (c) How each chess piece moves, including castling and en passant captures.

Coin Collecting

Requirement #4: (*Bring 16 different coins all together.*)

Collect & bring with you the coins listed in:

- (a) First sentence [2 pennies, as described].
- (b) First sentence [2 nickels, as described].
- (c) [1 dime, as described].
- (d) First sentence [7 quarters, as described].
- (e) [1 half dollar, as described].
- (f) [3 one-dollar coins, as described].

Requirement #7:

Complete either:

- (a) First sentence and bring your collection to class.
- (b) First sentence and bring your collection to class.
- (c) First sentence and bring your collection to class.

OR

- (d) Parts 1-3. Supply the date, location, purpose, and sponsor of the show/meeting/facility attended.

OR

Part 4. (Must get counselor approval first)

Collections should be organized/preserved/stored using a method in requirement #3.

Crime Prevention

Requirement #2:

Prepare a journal from various sources that address crime and crime prevention efforts in your community.

Requirement #4:

Home and Neighborhood Crime Prevention.

Electricity

Requirement #2:

Complete an electrical home safety inspection of your home, using the checklist found in the Electricity Merit Badge Pamphlet or one approved by your counselor. Discuss what you find with your counselor.

Requirement #8:

Do the following:

- (a) Read a meter associated with an electric bill. Determine the total power used since the bill, and the cost of that power.
- (b) Explain other charges on the bill that were taxes or fees.
- (c) Discuss with your counselor five ways your family can conserve energy.

Requirement #9:

Explain the following:

- (a) Electrical terms - Current, energy, power, resistance, and voltage
- (b) Units of measure - Ampere (amps), ohms, volts, watts, and watt-hours
- (c) Electrical conditions - Generating source with example, ground, open circuit, overvoltage, potential difference, and short circuit
- (d) Equipment and their use - circuit, conductor, Ground Fault Circuit Interrupter (GFCI), insulator, inverter, rectifier, rheostat, substation, surge protection, solar panel, transformer, transmission and distribution systems, and wind turbine

Graphic Arts

Requirement #1:

Specifically: "Collect samples of three products, each one produced using a different printing process" [Collect the samples to the best of your ability, and bring them along with you - if you find more than three you can bring them, and we will identify the printing process during the session].

Requirement #7:

Specifically: "Find out about three career opportunities in graphic arts. Pick one and find out the education, training, and experience required for this profession" bring this piece in writing.

Railroading

Requirement #1:

- (a) Name three types of modern freight trains. Explain why unit trains are more efficient than mixed freight trains.
- (b) Name one class I or regional railroad. Explain what major cities it serves, the locations of major terminals, service facilities, and crew change points, and the major commodities it carries.

Requirement #2b:

List and explain the various forms of public/mass transit using rail.

Requirement #3:

Do ONE of the following:

- (a) Name four departments of a railroad company. Describe what each department does.
- (b) Tell about the opportunities in railroading that interest you most and why.
- (c) Name four rail support industries. Describe the function of each one.

Requirement #4:

Do the following:

- (a) Explain the purpose of Operation Lifesaver and its mission.
- (b) List 9 track basic safety tips to remember when you are around a railroad track.
- (c) List 9 safety considerations that should be followed when walking near a railroad track.

Requirement #6:

Do EACH of the following:

- (a) Explain how railroad signals operate and show two basic signal types using color or configuration.
- (b) Explain the meaning of three horn signals.
- (c) Describe a way to signal a train for an emergency stop.
- (d) Explain the use and function of the EOTD (end-of-train device) or FRED (flashing rear end device) used on the last car of most trains.

Requirement #7:

Do ONE of the following special-interest options.

- (a) **Option A—Model Railroading.** With your parent or guardian's and counselor's approval, do TWO of the following:
 - (1) Draw a layout of your own model railroad or one that could be built in your home. Design a point-to-point track or loop with different routings. Include one of the following: turnaround or terminal or yard or siding.

OR

- (4) Locate the Web site of four model railroad - related manufacturers or magazine publishers. Print information on their products and services and discuss the information with your counselor.

Scout may choose another option for requirement 7, but must bring proof of its competition.

Reptile and Amphibian Study

Requirement #8: (*Observation or Care*)

Scouts should observe a reptile or amphibian (at home, zoo, or other facility) or arrange to care for one at least one month prior to the session. They must document observations or care details, including food, behavior, and habitat conditions.

Requirement #9: (*Field Work*)

- If choosing option 9a, Scouts should identify three kinds of toads or frogs by their voices and practice imitating their songs before the session.
- If choosing option 9b, Scouts should familiarize themselves with local species to identify them by sight.

Scouting Heritage

Requirement #4:

Do ONE of the following: (*Add report to your worksheet*)

- (a) Attend either a BSA national jamboree, OR world Scout jamboree, OR a national BSA high-adventure base. While there, keep a journal documenting your day-to-day experiences. Upon your return, report to your counselor what you did, saw, and learned. You may include photos, brochures, and other documents in your report.
- (b) Write or visit the National Scouting Museum. Obtain information about this facility. Give a short report on what you think the role of this museum is in the Scouting program.
- (c) Visit an exhibit of Scouting memorabilia or a local museum with a Scouting history gallery, or (with your parent's permission and counselor's approval) visit with someone in your council who is recognized as a dedicated Scouting historian or memorabilia collector. Learn what you can about the history of the BSA. Give a short report to your counselor on what you saw and learned.

Requirement #5:

Learn about the history of your unit or Scouting in your area. Interview at least two people (one from the past and one from the present) associated with your troop. These individuals could be adult unit leaders, Scouts, troop committee members, or representatives of your troop's chartered organization. Find out when your unit was originally chartered. Create a report of your findings on the history of your troop, and present it to your patrol or troop or at a court of honor, and then add it to the troop's library. This presentation could be in the form of an oral/written report, an exhibit, a scrapbook, or a computer presentation such as a slide show. -Add your written report to the worksheet.

Requirement #6:

Make a collection of some of your personal patches and other Scouting memorabilia. With their permission, you may include items borrowed from family members or friends who have been in Scouting in the past, or you may include photographs of these items. Show this collection to your counselor, and share what you have learned about items in the collection. (There is no requirement regarding how large or small this collection must be.) -Bring your collection with you to MBU.

Requirement #8:

Interview TWO people on your own & add your written reports to the Worksheet.

Whether before, or after we discuss at the 3/7/26 MBU, Scouts need to fulfill these requirements on their own for the Scouting Heritage MB. **Must print and bring the merit badge Worksheet.**

Weather

Requirement #9:

Do ONE of the following:

- Make one of the following instruments: wind vane, anemometer, rain gauge, hygrometer. Keep a daily weather log for one week using information from this instrument as well as from other sources such as local radio and television stations, NOAA Weather Radio All Hazards, and Internet sources (with your parent's parent or guardian's permission). Record the following information at the same time every day: wind direction and speed, temperature, precipitation, and types of clouds. Be sure to make a note of any morning dew or frost. In the log, also list the weather forecasts from radio or television at the same time each day and show how the weather really turned out.

Resources: [Weather 101: Build Your Own Wind Vane! \(video\)](#)

[DIY Anemometer \(Measure Wind Speed\) \(video\)](#)

[How to Make a Rain Gauge \(video\)](#)

[How to Make Your Own Hygrometer \(video\)](#)

- Visit a National Weather Service office or talk with a local radio or television weathercaster, private meteorologist, local agricultural extension service officer, or university meteorology instructor. Find out what type of weather is most dangerous or damaging to your community. Determine how severe weather and flood warnings reach the homes in your community.

Resource: [Behind the Scenes of the National Weather Service Atlanta/Peachtree City \(video\)](#)

Requirement #10:

Give a talk of at least five minutes to a group (such as your unit or a Cub Scout pack) explaining the outdoor safety rules in the event of lightning, flash floods, and tornadoes. Before your talk, share your outline with your counselor for approval.

Requirement #11:

Find out about a weather-related career opportunity that interests you. Discuss with and explain to your counselor what training and education are required for such a position, and the responsibilities required of such a position. -Bring research to class.



Eagle Valley
27th Merit Badge
University
Hosted by
Penn West University
Laurel Highlands Council
www.eaglevalleymbu.org



I certify that this Scout has met the Prerequisites for the badge checked below.

Scout Name (print) _____ Unit _____ Council _____

Leader Signature _____ Title _____ Date _____

2026 Prerequisite Agreement

The Scout acknowledges that not all Merit Badges can be completed at the Eagle Valley Merit Badge University without first completing work prior to the event. The Scout further understands that this form MUST be filled out correctly, signed, and then turned into the instructor the day of the event. Please use one form for each badge taken. See Participant Guide for a detailed description of all Prerequisites.

Please check those requirements completed.

American Heritage <input type="checkbox"/> Read Declaration of Independence <input type="checkbox"/> Requirement 3C	American Labor <input type="checkbox"/> Requirement 2 <input type="checkbox"/> Requirement 5B	Art <input type="checkbox"/> Requirement 7
Automotive Maintenance <input type="checkbox"/> Print Workbook <input type="checkbox"/> Requirement 8 <input type="checkbox"/> Requirement 9 <input type="checkbox"/> Requirement 11 <input type="checkbox"/> Requirement 12	Chess <input type="checkbox"/> Requirement 3A <input type="checkbox"/> Requirement 3B <input type="checkbox"/> Requirement 3C	Coin Collecting <input type="checkbox"/> Requirement 4 <input type="checkbox"/> Requirement 7
Crime Prevention <input type="checkbox"/> Requirement 2 <input type="checkbox"/> Requirement 4	Electricity <input type="checkbox"/> Requirement 2 <input type="checkbox"/> Requirement 8 <input type="checkbox"/> Requirement 9	Graphic Arts <input type="checkbox"/> Requirement 1 <input type="checkbox"/> Requirement 7
Railroading <input type="checkbox"/> Requirement 1A and 1B <input type="checkbox"/> Requirement 2B <input type="checkbox"/> Requirement 3A, 3B, & 3C <input type="checkbox"/> Requirement 4A, 4B, & 4C <input type="checkbox"/> Requirement 6A, 6B, 6C, & 6D <input type="checkbox"/> Requirement 7A1 or 7A4	Reptile and Amphibian <input type="checkbox"/> Requirement 8 <input type="checkbox"/> Requirement 9	Scouting Heritage <input type="checkbox"/> Print Workbook <input type="checkbox"/> Requirement 4 <input type="checkbox"/> Requirement 5 <input type="checkbox"/> Requirement 6 <input type="checkbox"/> Requirement 8
Weather <input type="checkbox"/> Requirement 9A or 9B <input type="checkbox"/> Requirement 10 <input type="checkbox"/> Requirement 11		