

2025 Eagle Valley Merit Badge University

Prerequisites

Should be done before attending the event.

American Heritage

Read the Declaration of Independence and 3-C.

Art

Requirement 7

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).

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

Please fill out the form at the end of the prerequisites and bring it to the event.

Coin Collecting

REQUIREMENT #4--Collect & bring with you to the March 9 Merit Badge class, 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].

Bring 16 different coins all together.

REQUIREMENT #7--DO: a., b., c. [first sentence of each], OR d. (1., 2., 3., or 4.). If doing 7.d., 1-3, supply the date, location, purpose, & sponsor of the show, meeting, or facility attended. If doing 7.d., get counselor approval first.

For 7.a., b., or c., bring your collection to the Merit Badge class.

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.

Please complete requirement 4

Engineering

Please read the Merit Badge Book.

Genealogy

Because of the need for the Scout's personal information, the following requirements are to be fulfilled on-your-own, either before OR after the classroom session:

2.a. OR 2.b.

3.

4c. AND 4.d.

5a., OR 5b., OR 5.c., OR 5.d., OR 5.e. Provide proof of contact.

6.

7.

9.

Print the Genealogy Merit Badge Workbook & enter the information on that form in order to fulfill the above out-of-classroom requirements.

For Requirement #4. c., provide a copy of the document.

For the Requirement 2.b. option, provide the journal, for review.

Graphic Arts

Req. 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]

Req. 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.

Inventing

Requirements 6, 7, 8

Public Speaking

Come prepared to answer questions about Robert's Rules of Order for requirement #5. See Public Speaking merit badge pamphlet or Google for resources.

Railroading

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.

2 (b) List and explain the various forms of public/mass transit using rail

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

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.

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.

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

1. **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.
2. **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.
3. **Requirement 10 (Superstitions and Facts):** Scouts should research five superstitions and seven true facts about reptiles and amphibians to discuss during the session.

Safety

Complete requirements 1 and 2a.

Surveying

Read the Merit Badge pamphlet.

Part of this class is taught outdoors so please dress accordingly.

Chess pre-requisites are on the next page.

Chess Form

Please print out and sign this form and bring it to class the day of the event.

Chess merit badge prerequisite worksheet

Requirements 3A, 3B, 3C: Using Scouting's Teaching EDGE, teach someone (preferably another Scout) who does not know how to play chess:

- a. Names of all six chess pieces
- b. How to properly setup a chess board
- c. How all the pieces move, including castling and en passant captures

Please complete the above requirements before the MBU and bring this signed worksheet with you to the merit badge class.

You do NOT need to bring a copy of the BSA Chess merit badge workbook. The merit badge counselor will allow you to work through the requirements without filling out a workbook.

I affirm that I have completed the above requirements for the chess badge:

(signature)

(print name)