



Railroading

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book).

Green items are prerequisites that should be completed before our meeting on April 7.

All requirements will be discussed and reviewed at this time.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Counselor's Ph #: _____

1. Do the following:

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. _____

c. Using models or pictures, identify 10 types of railroad freight or passenger cars. Explain the purpose of each type of car.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

2. Do the following:

a. Explain the purpose _____

and formation of Amtrak. _____

Explain, by the use of a timetable, a plan for making a trip by rail between two cities at least 500 miles apart. List the times of departure and arrival at your destination, the train number and name, and the type of service you want.

Depart Location	Time	Arrival Location	Time	Train#	Service
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

b. List and explain the various forms of public/mass transit using rail as the fixed-guide path. _____

3. Do the following (at convention on April 7th):

d. With your parent's and counselor's approval, interview someone employed in the rail industry. Learn what that person does _____

and how this person became interested in railroading. _____

Find out what type of schooling and training are required for this position. _____

4. Explain the purpose of Operation Lifesaver and its mission. _____

5. Do the following:

d. Tell your counselor about the guidelines for conduct that should be followed when you are near or on railroad property.

Explain the dangers of trespassing on railroad property. _____

f. Tell how to report a malfunction of grade crossing warning devices. _____

g. List safety precautions a pedestrian should follow at a public crossing. _____

6. Explain the appearance and meaning of the following warning signs and devices:
advanced warning sign, _____

pavement markings, _____

crossbucks, _____

flashing red lights, _____

crossing gates. _____

7. 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 whistle 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. _____

8. Do the following special-interest areas and complete the requirements.

- 2. Build one model railroad car kit or one locomotive kit.
- 3. Name the scale of four popular model railroad gauges. Identify the scale of four model cars or locomotives.
Show the correct way to clean and oil model train equipment.

Gauge	Name	Scale	Track Gauge	Gauge	Name	Scale	Track Gauge
1	_____	_____	_____	3	_____	_____	_____
2	_____	_____	_____	4	_____	_____	_____

Color Codes: **Prerequisites** **Convention** **Trolley Barn**

Colors indicated where requirements will be discussed and completed.

Be prepared to discuss and review prerequisites in **green** or **red** + **blue** at Trolley Barn.

Prerequisites are to be completed before April 7th.

Online Resources (Use any Internet resource with caution and only with your parent's or guardian's permission.)

Merit Badge Workbooks: usscouts.org -or- meritbadge.org ► Merit Badge Books: www.scoutstuff.org

Boy Scouts of America: <http://www.scouting.org/> ► [Requirements](#) ►►