



Railroading

Merit Badge Workbook



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

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information.

You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show", "tell", "explain", "demonstrate", "identify", etc, that is what you must do.

Merit Badge Counselors may not require the use of this or any similar workbooks.

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub. 33216 – SKU 653801).

The requirements were last issued or revised in 2019 • This workbook was updated in June 2020.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Phone No.: _____ Email: _____

<http://www.USScouts.Org> • <http://www.MeritBadge.Org>

Please submit errors, omissions, comments or suggestions about this **workbook** to: Workbooks@USScouts.Org

Comments or suggestions for changes to the **requirements** for the **merit badge** should be sent to: Merit.Badge@Scouting.Org

1. Do THREE of the following:

a. Name three types of modern freight trains.

1.	
2.	
3.	

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.

Workbook © Copyright 2020 - U.S. Scouting Service Project, Inc. - All Rights Reserved
Requirements © Copyright, Boy Scouts of America (Used with permission.)

This workbook may be reproduced and used locally by Scouts and Scouters for purposes consistent with the programs of the Boy Scouts of America (BSA), the World Organization of the Scout Movement (WOSM) or other Scouting and Guiding Organizations. However it may NOT be used or reproduced for electronic redistribution or for commercial or other non-Scouting purposes without the express permission of the U. S. Scouting Service Project, Inc. (USSSP).

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.	

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

3. Do ONE of the following:

c a. Name four departments of a railroad company. Describe what each department does.

	Department	What the department does.
1.		
2.		
3.		
4.		

Railroading

Scout's Name: _____

- c 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 THREE of the following:

- c a. List five safety precautions that help make trains safer for workers and passengers.

1.	
2.	
3.	
4.	
5.	

- c b. Explain to your merit badge counselor why safety around rights-of-way is important.

Railroading

Scout's Name: _____

- c. List 10 safety tips to remember when you are near a railroad track (either on the ground or on a station platform) or aboard a train.

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

- 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.

- e. Tell what an automobile driver can do to safely operate a car at grade crossings, and list three things an automobile driver should never do at a grade crossing.

Safely operate a car:

What a driver should never do at a grade crossing.

1.

2.

3.

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

c 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: advance warning sign, pavement markings, crossbucks, flashing red lights, crossing gates.

	Appearance	Meaning
Advance warning sign:		
Pavement markings:		

Railroading

Scout's Name: _____

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 horn signals.

1.	
2.	

3.

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 freight trains.

8. Select ONE of the following special-interest areas and complete the requirements.

c a. Model Railroading - With your parent's and counselor's approval, do TWO of the following:

c 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.



