

## Railroading

## Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Merit Badge Workbooks and much more are below: Online Resources.

Workbook developer: craig@craiglincoln.com. Requirements revised: 2005, Workbook updated: April 2008.

Scout's Name:		Unit:
		Counselor's Ph #:
1. Do THREE of the follow	ving:	
a. Name three types of mod	dern freight trains.	
Francis who will be in a second		
		reight trains
the locations of major termi	nals, service facilities and o	crew change points,
and the major commodities	it carries.	
c. Using models or pictures	, identify 10 types of railroa	ad freight or passenger cars. Explain the purpose of each type of car.

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u. Explain flow a	IIIOGEIII GIESEI		5 locomotive develops pow			
Evalois the terms	dynamia braki	ina				
Explain the terms	dynamic brak	y				
and radial steering	g trucks					
2. Do the following	na:					
	•					
and formation of A	ımtrak					
			or making a trip by rail bet he train number and name			miles apart. List the times of bu want.
Depart Location		Time	Arrival Location	Time		Service
b. List and explain	the various fo	orms of pu	blic/mass transit using rail	as the fixed-gu	uide path	
3. Do ONE of the	following:					
a. Name four d	lepartments of	f a railroad	I company. Describe what	t each departm	ent does.	
Department	Describe	e what eac	h department does.			
OD [ ] . T   .						
-UK- ∐ b. Tell ab	out the oppor	tunities in	railroading that interest you	u most and why	y. 	

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-OR- ☐ c. Name four rail suppor	rt industries. Describe the function of each one	9.
Rail Support Industry	Describe the function of each one.	
	d counselor's approval, interview someone em	nployed in the rail industry. Learn what that person
and how this person became inte	erested in railroading.	
Find out what type of schooling a	nd training are required for this position	
4. Explain the purpose of Oper	ration Lifesaver and its mission.	
5. Do THREE of the following:  a. List five safety precautions	that help make trains safer for workers and pa	assengers.
b. Explain to your merit badg	e counselor why railroad rights-of-way are imp	portant for safety.
c. List 10 safety tips to rementrain.	nber when you are near a railroad track (either	on the ground or on a station platform) or aboard a

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d. Tell your counselor about the	guidelines for conduct that should be followed	d when you are near or on railroad p	roperty.
Explain the dangers of trespassing	on railroad property		
e. Tell what an automobile drive	r can do to safely operate a car at grade cros	ssings,	
and list three things an automobile	driver should never do at a grade crossing.		
f. Tell how to report a malfunctio	n of grade crossing warning devices		
g. List safety precautions a pede	estrian should follow at a public crossing		
	·		
6. Explain the appearance and m	eaning of the following warning signs and	l devices:	
pavement markings,			
crossbucks,			
flashing red lights,			
crossing gates.			
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Gauge	Name	Scale	Track Gauge	Gauge	Name	Scale	Track Gauge
1				3			
2							
4. Loca	te the Web si	ite of four model	railroad-related man	nufacturers or m	nagazine publishe		
			scratch or using a ki on the diorama scen		ather the structur	re, mount it on y	our layout or diorama,
			el railroad or modular at you enjoyed most	•	g ballast and sce	nery. Make ele	ctrical connections
7. Parti	cipate in a sw	vitching contest	on a timesaver layou	it and record yo	ur time.		
b. Railfanr	ning - With y	our parent's a	nd counselor's app	oroval, do TWO	of the following	g:	
			display, or a prototy Explain what you sav	•	•		•
		and ride a scenion		Under supervis	sion, photograph	the equipment	and discuss with your
			storical groups, then ober of one of the gro				ation operations and
Purchase t	ne tickets and	d make the trip.	Explain to your cou	nselor what you	saw.		
Online Res	sources (Us	se any Internet r	esource with caution	and only with y	our parent's or g	uardian's permi	ssion.)
Boy Scout		a: ► scouting.or	~		Age-Appropriate		► Safe Swim Defense
		► <u>Tenderfoot</u>	► <u>Second Class</u>	-			➤ Safety Afloat
•	_		usscouts.org -or- me		Merit Badge Bo	·	
-	ge First Aid \		ke a First Aid Kit		sics2 <u>CPR Ba</u>		mous Snake Bite
Video Less	sons:	Making a Mo	<u>del Train Layout</u>	<b>Hov</b>	<u>v to Make Model</u>	Train Villages	