

# LCCA and BSA

*"Workin' on the Railroad"*

**BSA Clinic Held during the  
LCCA Convention at the  
Marriott Waterside Hotel  
Norfolk, VA  
Saturday, July 28, 2012, 8:30 to 2**

**Prepare for your  
Railroading Merit Badge**



*Many scouts attending the BSA Railroading Merit Badge Clinic during the LCCA 2011 Convention in Dallas, TX, qualified for this important merit badge.*

**To participate in the BSA RR Merit Badge Clinic, register online no later than July 15th. Choose one of these two methods.**

1. Send an e-mail to the LCCA Business Office at [office@lionelcollectors.org](mailto:office@lionelcollectors.org) with "BSA RR Clinic Registration" entered in the e-mail title. Include in this e-mail your name, contact information (mail address, telephone, and e-mail address), and your Council, District, and Troop (including your Scoutmaster's name).
- 2: Visit the LCCA Website at [www.lionelcollectors.org](http://www.lionelcollectors.org). Either click on the BSA box on the cross-buck or go to the "Convention News" tab, go to "Additional Convention News Stories" and click on the BSA RR Merit Badge Clinic story. Once there, follow the link to the "Registration" hyperlink, fill-in the information requested and submit it to the LCCA Business Office – it's the same information cited above.

When your registration application is received, the LCCA Business Office will send you an e-mail confirming your registration.



**Listed below are the BSA Railroading Merit Badge requirements. Prior to attending the Merit Badge Clinic to be held at the LCCA Convention, Scouts should “Be Prepared” – read the BSA Railroading Merit Badge pamphlet. It will prepare you for the information to be presented at each station of the clinic. When you check-in, you will receive worksheets that will document your participation and support your Merit Badge application.**

## **Instructions**

- Scouts can complete these requirements for the BSA Railroading Merit Badge at the LCCA Convention: No. 1, 2, 3, 4, 5, 6, 7, and 8A or 8B.
- If you have completed any of these or other requirements prior to the event, please bring your completed work or a written explanation to satisfy the requirement for review by a counselor.
- There will be several displays throughout the event to help you complete the requirements.
- Counselors will be on hand to review your work. Current and retired railroad workers will discuss the requirements and what you can do to be safe around railroads.
- Wear your Scout uniform for free admission to the event. Parents and Scout families will be admitted by showing current Scout identification. This offer is also extended to Cub Scouts, Girl Scouts, Explorer, Venture, Sea, or Air Scouts.
- Bring paper and pencil to prepare your work or bring your previously completed written work to be reviewed by a counselor.
- O-gauge toy trains will be represented from a variety of manufacturers and supplementary providers. Multiple operating displays and hands-on opportunities abound.
- Scouts: Go to the Registration Desk to get your information package. Your last stop will be back at the Merit Badge table to finish the paperwork
- This program may also satisfy some of the requirements for Cub Scouts and Girl Scout skill awards for hobbies and travel.

## **Railroading Merit Badge Requirements**

1. Do THREE of 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 1 or regional railroad. Explain what major cities it serves, the location 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.
  - d. Explain how a modern diesel or electric locomotive develops power. Explain the terms dynamic braking and radial steering trucks.
  - e. Explain the purpose of Amtrak. Explain, by the use of a timetable, a plan for making a trip 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.
- f. List and explain the various forms of public/mass transit using rail.
2. 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.
3. 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:
  - a. List five safety precautions that help make trains safer for workers and passengers.

- b. Explain to your merit badge counselor why railroad rights-of-way are important for safety.
  - 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.
  - 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 at car at grade crossings, and list three things an automobile driver should never do at a grade crossing.
  - 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: advance warning sign, pavement markings, crossbucks, flashing red lights, crossing gates.
7. Do EACH of the following:
- a. Explain how RR 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.
8. Select ONE of the following special-interest areas and complete the requirements.
- a. Model Railroading

With your parent's consent and counselor's approval, do TWO of the following:

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: turn-around or terminal or yard or siding.

- 1) Build one model railroad car kit or one locomotive kit.
- 2) Name the scale of four popular model railroad gauges. Identify the scale of four model cars or locomotives.
- 3) Locate the website of four model railroad-related manufacturers or magazine publishers. Print information

on their products and services and discuss the information with your counselor.

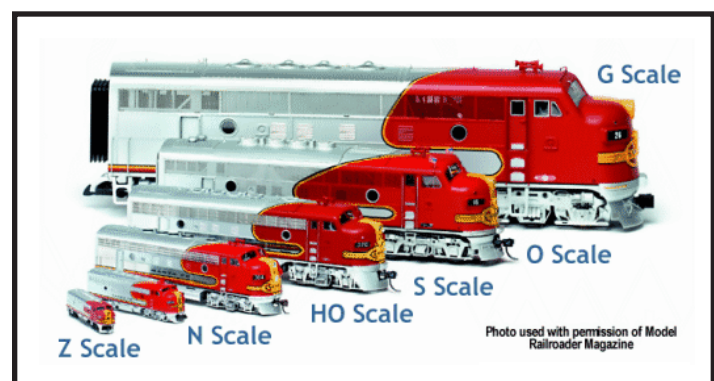
- 4) Build one railroad structure (from scratch or using a kit), paint and weather the structure, mount it on your layout or diorama, and make the surrounding area on the diorama scenic.
- 5) Alone or with others, build a model railroad or modular layout including ballast and scenery. Make electrical connections and operate a train. Describe what you enjoyed most.
- 6) Participate in a National Model Railroad Association switching contest on a timesaver layout and record your time.

b. Railfanning

With your parent's and counselor's approval, do TWO of the following:

Visit a railroad museum, historical display, or a prototype railroad-sponsored public event. With permission, photograph, videotape, or sketch items of interest. Explain what you saw and describe your photos, sketches, or videotape.

- 1) Purchase tickets and ride a scenic or historic railroad. Under supervision, photograph the equipment and discuss with your counselor the historical significance of the operation.
- 2) Locate the website of four rail historical groups, then find information on the history of the rail preservation operations and purpose of each group. Talk with a member of one of the groups and find out how you might help.
- 3) Plan a trip by rail between two points. Obtain a schedule and explain when the train should arrive at two intermediate points. Purchase the tickets and make the trip. Explain to your counselor what you saw.



Comparative sizes of various scales of model trains.

Registration and  
Check-in

Station #1  
Railroad Types

Station #2  
Railroad Operations

Station #3  
Railroad Personnel

Station #4  
Operational  
Lifesaver

Station #5  
Railroad Safety

Station #6  
Railroad Warnings

Station #7  
Railroad Signals

Station #8  
Model Railroading  
or Railfanning

Checkout

## About the BSA Clinics

Scouts should start at the Registration Desk to record their attendance and receive worksheets to record their progress through the clinic.

Scouts will be routed through the eight stations to cover the major Railroading Merit Badge categories. At registration, scouts will be placed in groups of 10-15 and move together through all the stations. At each station, a docent familiar with the information will train the scouts on what they must master for that set of requirements.

Scouts do not have to complete the stations sequentially; they will be routed to the next available station until all stations are completed.

Once the group has finished all the stations, they will proceed to the checkout area where they will be quizzed on the railroad knowledge they learned while progressing through the stations. If they pass, the Railroading Merit Badge counselor will sign their worksheet to validate their work.

Scouts must return the completed paperwork to their Scoutmaster for submission to receive their merit badge.

### NOTES:

- This Railroading Merit Badge clinic will take approximately two hours to complete. The clinic is scheduled from 8:30 a.m. through 2 p.m. No new scouts will be allowed to start the process after 1 o'clock. While scouts move through the stations, family members, Cub Scouts, or Girl Scouts may attend other displays and clinics in the host hotel.
- Not all the stations are co-located, so groups will move through the convention displays and Trading Hall to get to all stations.
- Each station is marked by a balloon with the station number on it.
- This Railroading Merit Badge clinic will complete most of the BSA requirements, but there are some other points for scouts to complete before they can submit their paperwork for the merit badge.

**LIONEL COLLECTORS CLUB of AMERICA**  
EST 1970

### For more information, please contact:

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