Instructor Guide



104: Introduction and Overview to Highway Grade Crossings



Signals — Introduction & Overview to Grade Crossings Instructor's Guide



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Warning System Malfunction	
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Icons Used In This Guide



REVIEW slides



INDIVIDUAL ACTIVITY



ASK



VRITE



CLASSROOM ACTIVITY



Multimedia



SMALL GROUP ACTIVITY



REFER participants to

Agenda

Topic #	Topic Title	Duration
1	Overview	20 Minutes
2	Regulation	20 Minutes
3	Warning System Devices	60 minutes
4	Field Trip	90 Minutes
5	Crossing Control Circuits	60 Minutes
6	Warning System Malfunction	20 Minutes
40	Trailic Signal Preemption	60 Minutes
8	Field Trip	90 Minutes
9	Summ ary	30 Minutes
	Total Time:	450 Minutes

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Overview

Purpose The purpose of this module is to:

provide the participant with basic terminology, regulations and oversight specific to highway grade crossings, general highway grade crossing components, control circuits and

Objectives

warning systems.

At the end of this lesson, the transit elevator/escalator trainee will be able to:

- Identify key highway grade crossing terminology & nomenclature
- Describe regulations pertaining to highway grade crossings
- Describe the principles of highway grade crossing operation
- Identify and describe highway grade crossing warning equipment
- Identify and describe highway grade crossing control circuits
- Describe highway grade crossing warning systems
- Identify three types of warning system malfunctions

Materials

Mandatory Make sure you have the following

1 Binder for Each Participant Including:

- Coursebook - PowerPoint Printout

1 Binder for Each Instructor Including:

- Coursebook - Instructor Guide(s)

- Handout(s) - Quiz(zes)

Participant Survey

On Computer or USB drive:

- PowerPoint Presentation - Videos

- Pencils

Optional

You may also vant the following for optional act vities:

Chalk board with chalk, large paper with marker, etc.

- Internet connection or downloaded video(s)
- Lab or simulator
- Handouts: NTSB Fox River Grove Reports

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Module Length: 450 min

Time remaining: 450 min

This section: 20 min (12 slides) Section start time:

SAY

Section End Time:

DO

In your own words:

Materials Needed



REVIEW introduction slides



Multimedia

Instructor's Notes

Welcome to the course on Introduction and Overview of Highway Grade Crossings.

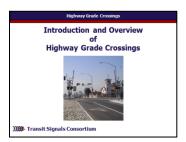
Advance

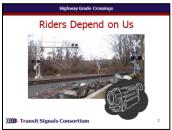
Riders depend on us.

A Southbound Metro-North train sails through what may be America's safest grade crossing. Not only is it equipped with LED flashers, gates and arrelectronic bell, but also is protected by trees on one side and stone pilings and K-rail harriers on the other.

This is the North Main Street grade crossing just south of Branchville that is still under construction on the Danbury Branch, The rubber crossing has not been installed yet, in fact the road has not been installed yet. **Continued**

✓ PPT slides 1, 2





✓Internet connection

