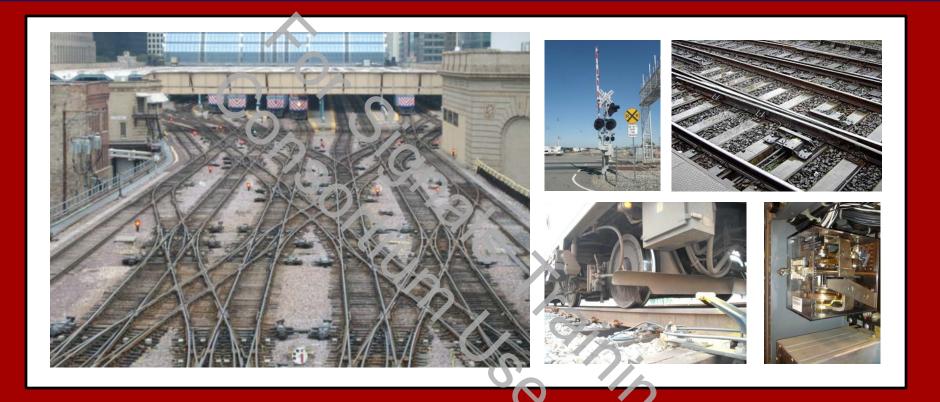
Instructor Guide



106: Introduction and Overview to Interlockings Module 1: Overview of Interlockings



Intro & Overview to Interlockings Instructor's Guide



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Instructor's Guide

Icons Used In This Guide



REVIEW slides



INDIVIDUAL ACTIVITY



ASK



VRITE



CLASSROOM ACTIVITY



Multimedia



SMALL GROUP ACTIVITY



REFER participants to

Agenda

Agenda			
Topic #	Topic Title	Duration	
1	Overview	20 minutes	
2	Terminology	40 minutes	
3	Regulations	10 minutes	
S ⁴	Design	30 minutes	
5	Types and Functions	45 Minutes	
6	Field Trip	90 Minutes	
40	Summary	10 Minutes	
0	Total Time:	245 Minutes	

Instructor's Guide



Purpose The purpose of this module is to:

Provide the participants with an introduction to reil interlockings. This introduction will include basic interlocking terminology and regulations, as well as the purpose and function of different types of interlockings and their operation in rail signaling.

Objectives

At the end of this lesson, the signal maintainer trainee will be able to:

- Define interlocking
- Define basic interlocking terminology
- Identify the applicable FRA and agency-specific standards related to interlockings
- Describe FRA and agency-specific interlocking-related safety guidelines
- Describe theory of operation and purpose of interlocking
- Describe different types of interlockings
- Describe how signal apparatus interacts in an interlocking system



Materials

Mandatory Make sure you have the following

- PowerPoint Presentation
- Coursebook
- Quizzes
- Pencils
- White board/ Flip chart and markers
- Internet connection or downloaded videos

Optional

You may also want the following for optional activities:

- Site specific:
 - Interlocking drawings to project and handout
 - System map, highlighting interlockings
- Interlocking equipment to pass around the class



Instructor's Guide

Module Length: 245 min

Time remaining: 245 min

This section: 20 min (14 slides) Section start time:

SAY

Section End Time:

DO

In your own words:





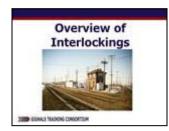
REVIEW slides

Welcome to the course on the Introduction and Overnew to Interlockings.

Ac vance slide.

Railroads can be very complex creatures with many overlapping areas where different components must work together for the same goal. It is the job of interlockings to ensure that all signal equipment - switches, signals, grade crossings, etc. - are coordinated in these overlapping areas. It only takes one piece of equipment that is not in sync to throw off the entire system.

PPT slides 1, 2





Instructor's Notes

Advance Slide.

Instructor's Guide





DO SAY Materials Needed



REFER participants to Coursebook



ASK

Instructor's Notes

In your own words:

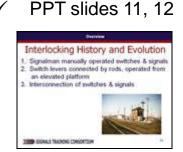
Your coursebook covers this topic in even more detail

Ask for volunteers to start reading section entitled "History and Evolution of Interlockings"

Advance slide as appropriate to highlight key concepts.

Advance Slide.

Interlockings consists of signals and usually include additional appliances, which are also known as apparatus, such as switches and derails, and may include railroad crossings at grade and movable bridges. **Advance Slide**





✓ Coursebook