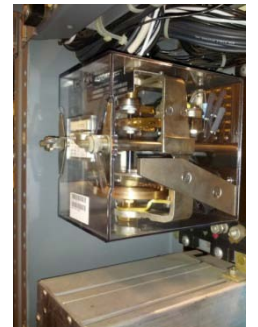


Instructor Guide



206: Inspection & Maintenance of Interlockings Module 1: Overview and Safety



Table of Contents

Overview.....	4
Safety.....	6
Tools.....	11
Testing.....	13
Documentation.....	18
Summary.....	20





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I&M of Interlockings – Overview & Safety

Instructor's Guide



Icons Used In This Guide

-  **REVIEW** slides
-  **ASK**
-  **CLASSROOM ACTIVITY**
-  **SMALL GROUP ACTIVITY**

-  **INDIVIDUAL ACTIVITY**
-  **WRITE**
-  **Multimedia**
-  **REFER** participants to

Agenda

Topic #	Topic Title	Duration
1	Overview	15 minutes
2	Safety	30 minutes
3	Tools	20 minutes
4	Testing	35 minutes
5	Documentation	15 minutes
6	Field Trip	90 Minutes
	Summary	15 Minutes
	Total Time:	220 Minutes

I&M of Interlockings – Overview & Safety

Instructor's Guide



Overview

Purpose The purpose of this module is to:

Provide the participant with a review of the safety procedures to be performed during the inspection, testing and maintenance of interlockings.

Objectives

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

- Describe safety procedures and requirements as per location and regulating authority
- List tools and testing equipment used in the inspection, testing and maintenance of interlockings
- Identify agency specific schedules for interlockings inspection and maintenance
- List tests, frequency and purpose of each test per your authority
- Describe inspection, maintenance and testing documentation for reporting as per agency regulations

Materials

Mandatory Make sure you have the following

- PowerPoint Presentation
- Coursebook
- Quizzes
- Pencils
- Digital display board / White board / Flip chart and markers

Optional You may also want the following for optional activities:

- Lab. simulator, mock-ups
- Interlocking tools to pass around the class
- PAD, DFD and/or other safety technology
- Relay shelf
- Blue prints for locking test
- CFR
- Site specific documentation sheets

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Instructor's Guide



Module Length: 220min Time remaining: 220min This section: 15min (5 slides) Section start time: _____ Section End Time: _____

DO

SAY

Materials Needed

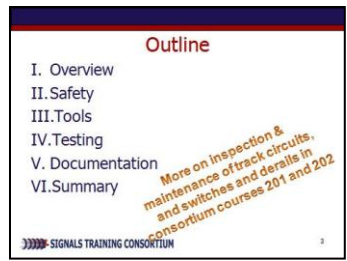


REVIEW slides

Instructor's Notes

In your own words:
 Welcome to the course on Inspection and Maintenance of Interlockings. **Advance slide.**
 This course was developed by a consortium of signal maintenance and training specialists from over 20 rail authorities and their unions. This group of subject matter experts has a total of over 600 years of experience. **Advance Slide.**
 Course 106 introduced interlocking systems and their basic components. Course 206 will hone essential skills for inspecting and maintaining interlocking systems. First, we'll focus on safety practices. Next we'll discuss the tools used during inspection and maintenance of interlockings. Finally, we'll discuss testing and documentation requirements. This module uses the FRA §236 guidelines for inspection, testing, maintenance and repair as the minimum standard. **Advance.**
 For information on inspection and maintenance of track circuits, and switches and derails, see courses 201 and 202. **Advance Slide.**

✓ PPT slides 1 - 3



I&M of Interlockings – Overview & Safety

Instructor's Guide



Module Length: 220 min Time remaining: 15 min This section: 15 min (2 slides) Section start time: _____ Section End Time: _____

DO

SAY

Materials Needed



ASK



REVIEW slides

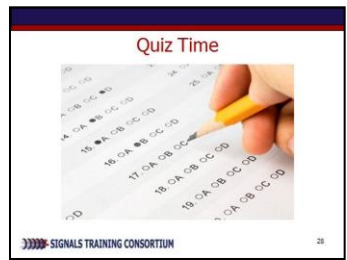
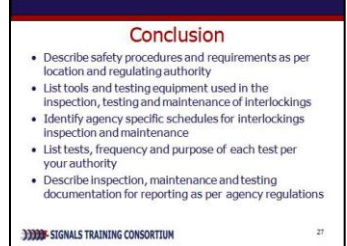
Instructor's Notes

In your own words:
 This module provided a review of safety procedures for signal maintainers when working around interlockings. It also outlines general inspections procedures for interlockings and gives an overview of locking tests, the recommended frequency of these tests as well as pre-testing precautions. The module also emphasizes the importance of completing required documentation following the completion of inspection, maintenance and testing of interlockings.

Read slide. For each objective, briefly review what was learned in this module or ask participants to share what they have learned for each learning objective and briefly discuss as a class. Advance Slide.

Administer quizzes.

✓ PPT slides 27, 28



- ✓ Pencils
- ✓ Quizzes