Instructor Guide



201: Track Circuits Inspection & Maintenance Module 1: Overview & Safety





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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

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Topic #	Topic Title	Duration	
1	Overview	30 Minutes	
2	Track Circuit Safety	60 Minutes	
3	Measuring Current Flow	20 Minutes	
4	Tools	40 Minutes	
5	Maintenance Schedules	10 Minutes	
6	Record Keeping	10 Minutes	
40	Field Trip	70 Minutes	
8	Summary	30 Minutes	
	Total Time:	270 Minutes	



Overview

Purpose The purpose of this module is to:

 provide the participant with an overview to inspecting and maintaining track circuits.

Objectives

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

- Use safety measures when working around track circuit
- Identify authority-specific maintenance procedures
- Record maintenance work performed
- Identify tools used in track circuit inspection and maintenance work
- Specify inspection and maintenance timetables for track circuits

Materials Mandatory

y Make sure you have the following

- PowerPoint Presentation
- Coursebook
- Quizzes
- Pencils
- Handouts: Handout 1 Course 201 Mod 1 WMATA Case Study
- Internet connection or downloaded videos

Optional

You may also want the following for optional activities:

- Chalk board with chalk, large paper with marker, etc.
- Lab, simulator or out of service elevator
- Your agency operating rules for safe inspection and maintenance





Module Length: 270 min

Time remaining: 270 min

This section: 30 min (7 slides)

Section start time:

Section End Time:

DO

SAY

Materials Needed



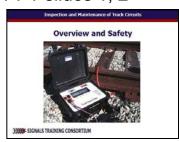
In your own words:

Welcome to the course on Overview and Safety for Inspection and Maintenance of Track Circuits Ad ance

The course you're about to take part in was developed by a group of over 40 Subject Matter Experts from across the country who are driven to create more dependable transportation systems, and gain espect for Signal Maintainers and the work they do. Managers, trainers and frontline workers just like ourselves contributed their combined experience of over 700 years with the skills of instructional cesigners at the Transportation Learning Center to make this program possible.

Advance

✓ PPT slides 1, 2



Inspection and Maintenance of Track Circuits		
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	SEPTA	TWV 234
TRANSPORTATION LEARNING CENTER	TriMet	ATU 767
SIGNALS TRAINING CONSORTIUM		

Instructor's Notes



Module Length: 270 min

Time remaining: 240 min

This section: 60 min (10 slides)

Section start time:

Section End Time: ___

DO

SAY

Materials Needed



REVIEW slides

Instructor's Notes

In your own words:

- Be aware of energized rail heating equipment e.g. snow-melters, crib heaters.
- Locate all voitage sources and accessible current paths before making connections to circuitry.
- For measuring tools, double check their settings and lead connections before making measurements.
- In high-energy circuits, dangerous arc flashes can occur if the circuit is shorted.

Advance

✓ PPT slide 15



✓Course book – p. 6