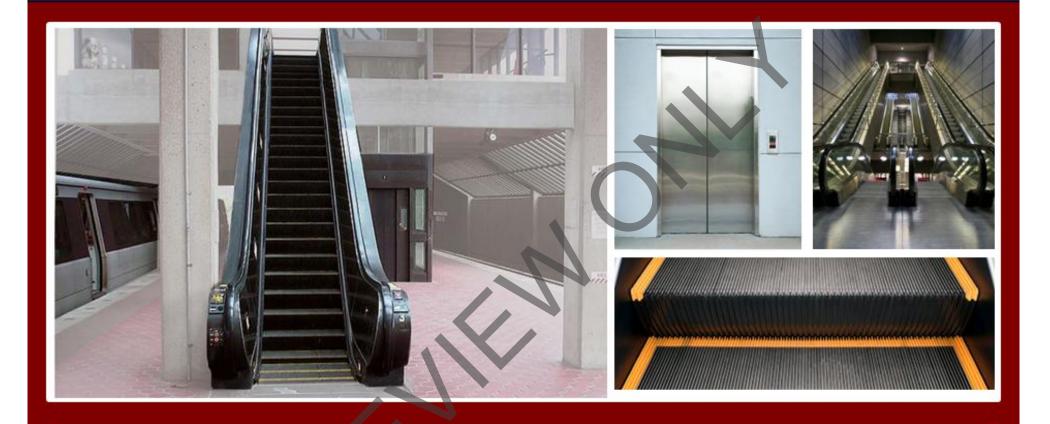
Instructor/Participant Guide



212: Escalator-Inspection & Basic Maintenance

Module 2: Lighting and Heating

>>>>> Transit Elevator/Escalator Consortium



Table	e of	Con	tents:

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Icons Used in This Guide

Throughout the Instructor's Guide, the following icons indicate the type of content presented.



Refer To



PowerPoint



Multimedia



Web based **Training**



Write



Ask



Individual Activity



Small Group Activity



Classroom **Activity**



Duration

Agenda

Topic No.	Topic Title	Duration
1	Introduction	5 minutes
2	Passenger Lighting	30 minutes
3	Maintenance Lighting	10 minutes
4	Heating Truss Heaters Pit Heaters Landing Heaters Machine Room Heaters	40 minutes
5	Summary	5 minutes
	Total Time:	1.5 hours



Overview

Purpose

The purpose of this module is to:

Prepare participants to perform inspections and basic maintenance on the lighting and heating systems commonly found in U.S. transit systems.

Objectives

At the end of this chapter, the learner will be able to:

- Identify the specific lighting and heating components and their locations.
- Complete a visual inspection of the lighting
- Clean, repair and/or replace any faulty lighting components
- Check all heater and thermostatic controls for proper operation
- Complete applicable maintenance documentation

Materials

Make sure you have the following:

- Laptop (one for leader)
- Participant Guides
- PowerPoint slide deck
- LCD projector
- A17.1 Safety Code for Elevators and Escalators
- A17.2 Guide for Inspection of Elevators, **Escalators and Moving Sidewalks**
- A17.3 Safety Code for Existing Elevators and Escalators

- Heavy Duty Transportation System Escalator Design Guidelines (APTA RT-RP-FS 007-02)
- Field Employees' Safety Handbook
- Transit Agency Handbook

Preparation

PREPARE flip charts with the following title:

Class Expectations



Instructor's Notes

Outline

Lighting and Heating Systems



- Identify the specific lighting and heating components and their locations.
- · Complete a visual inspection of the lighting.
- Clean, repair and/or replace any faulty lighting
- Check all heater and thermostatic controls for proper

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Slide 1

Slide 2

GAIN audience attention by introducing yourself.



WELCOME the participants to the Lighting and Heating Systems module.



ASK: What type of inspection is done on most lighting and heating systems?

DIRECT participants to the objectives on slide 2.

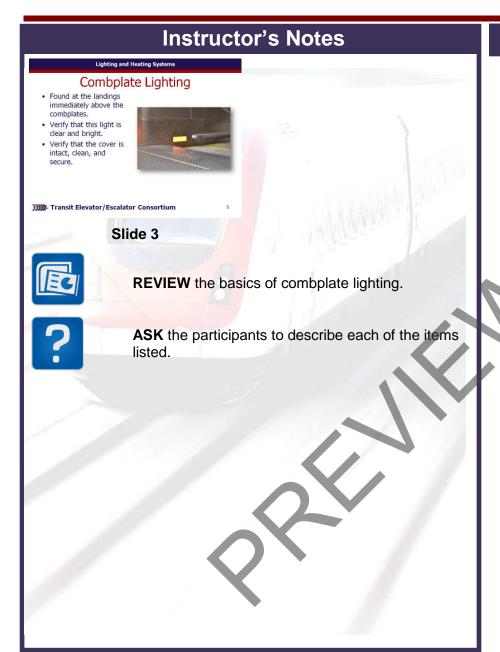


REVIEW the objectives on Slide 2

Introduction

Welcome to the Lighting and Heating Systems module.

What type of inspection is done on most lighting and heating
systems?





Combplate Lighting

Where is this style of lighting located?

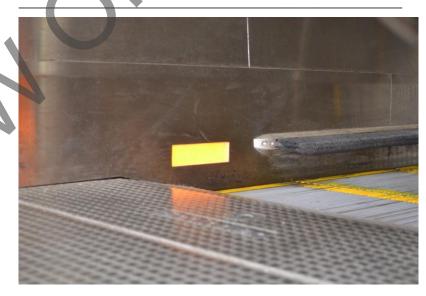


Figure 1: Combplate Lighting

Instructor's Notes Balustrade Lighting Provided to illuminate all exposed steps. Conduct a visual inspection of: - Electrical conduit and)))). Transit Elevator/Escalator Consortium Slide 6 **REVIEW** slide 6 and discuss balustrade lighting. **CONTENT:** Direct participants to describe in their own words the basics of passenger lighting. APPLICATION FEEDBACK: Now that we have discussed a little about passenger lighting, have the participants answer the following questions. ASK participants to describe what the balustrade light illuminates.

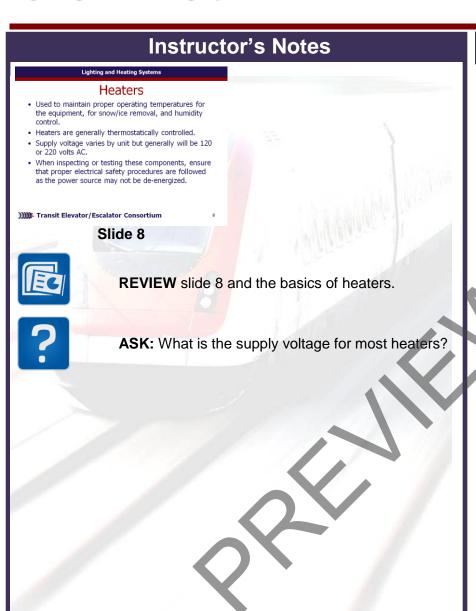


Balustrade Lighting

What does the balustrade lighting illuminate?



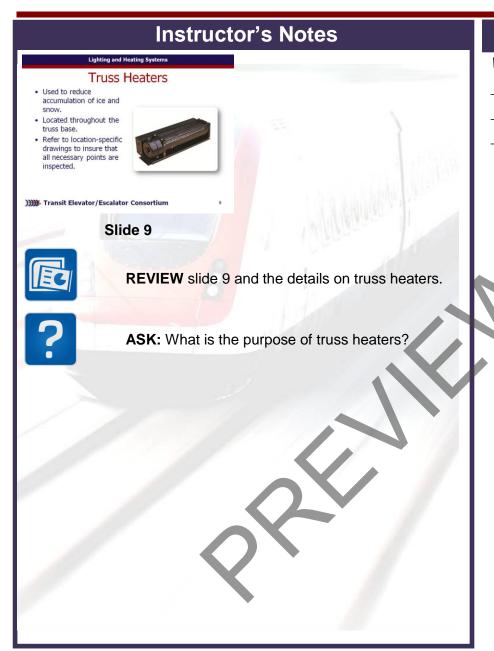
Figure 2: Demarcation Lamps





Heaters

What is the supply voltage for most heaters?



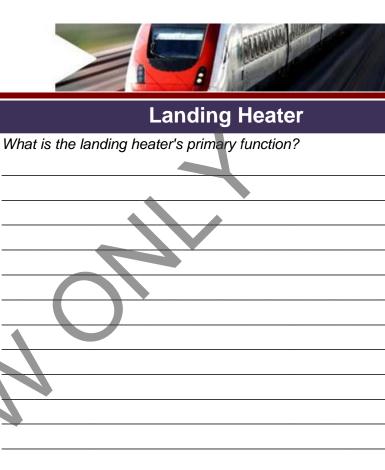


Truss Heaters

What is the purpose of the truss heater?



Figure 3: Truss Heater



Instructor's Notes

Landing Heater

- temperatures in the unit during cold weather.
- Located on both the upper and lower ends of the unit.
- · Thermostatically controlled and must be inspected and tested according to manufacturer and Authority
- · Drawings must be used to determine the location of heating units, thermostats, and controllers.

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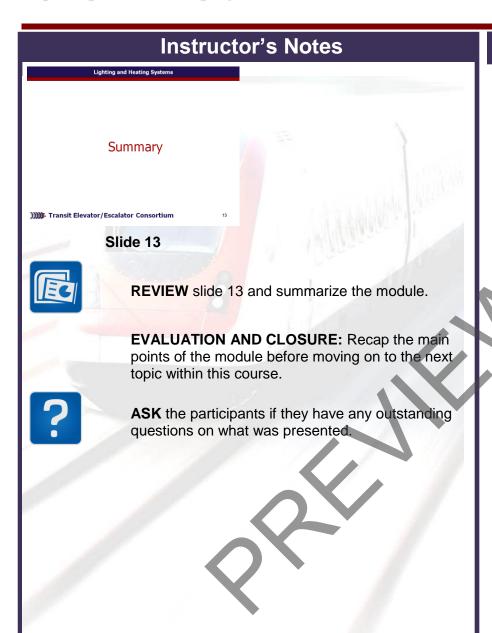
Slide 11



REVIEW slide 11 and the landing heater's functions.



ASK: What is the landing heater's primary function?





Summary