

Instructor Guide



200: Overview of Vertical Transportation in the Public Transit Industry

Module 2: Escalator Components and Controls

 **Transit Elevator/Escalator Consortium**

Escalator Components and Controls



Table of Contents:

Introduction.....	1
Exterior Components	2
Interior Components	3
Control System	4
Safety Precautions.....	5
Drive Systems.....	6
Conventional Escalator	7
Step System	8
Handrail System	9
Safety Devices.....	10
Summary	11
Answer Key	12-13

Table of Figures:

Figure 1: Brake System	7
------------------------------	---



Icons Used in This Guide

Throughout the Learner’s Guide, the following icons indicate the type of content being 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 <ul style="list-style-type: none"> Set expectations 	5 minutes
2	Exterior Components	30 minutes
3	Interior Components	30 minutes
4	Step System	20 minutes
5	Handrail System	15 minutes
6	Lighting System	15 minutes
7	Summary	5 minutes
Total Time:		2 hours

Escalator Components and Controls



Overview

Purpose

The purpose of this module is to:

- Provide participants with more detailed information regarding escalator components and controls.

Objectives

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

- Describe Exterior and Interior Features
- Describe Operating Control System
- Describe Drive and Brake System
- Describe Step System
- Describe Handrail System
- Describe Safety and Lighting Devices

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 Elevator Design Guidelines (APTA RT-RP-FS 008-03)
- Heavy Duty Transportation System Escalator Design Guidelines (APTA RT-RP-FS 007-02)

Materials

- Field Employees' Safety Handbook
- Transit Agency Handbook

Preparation

PREPARE flip charts with the following titles:

- Class Expectations