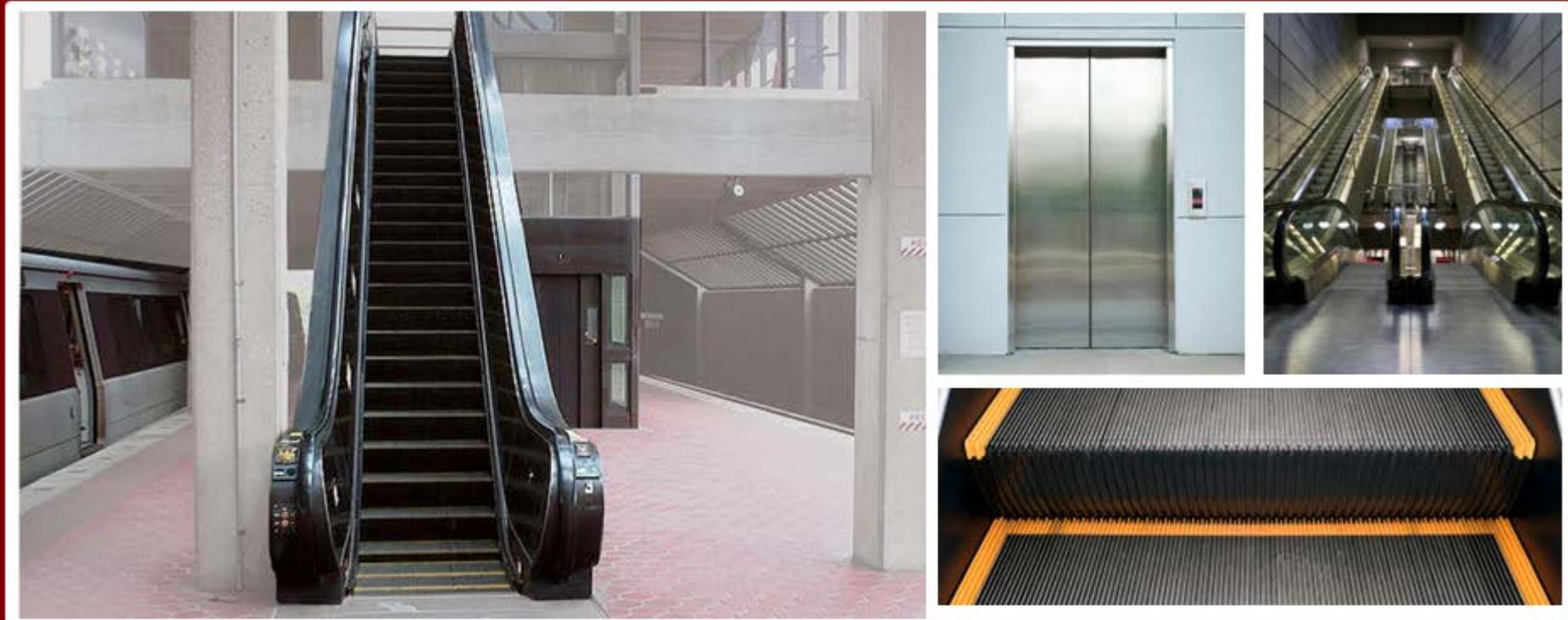


Learner's Guide



200: Overview of Vertical Transportation in the Public Transit Industry

Module 3: Elevator Components and Controls

 **Transit Elevator/Escalator Consortium**

Elevator Components and Controls



Table of Contents:

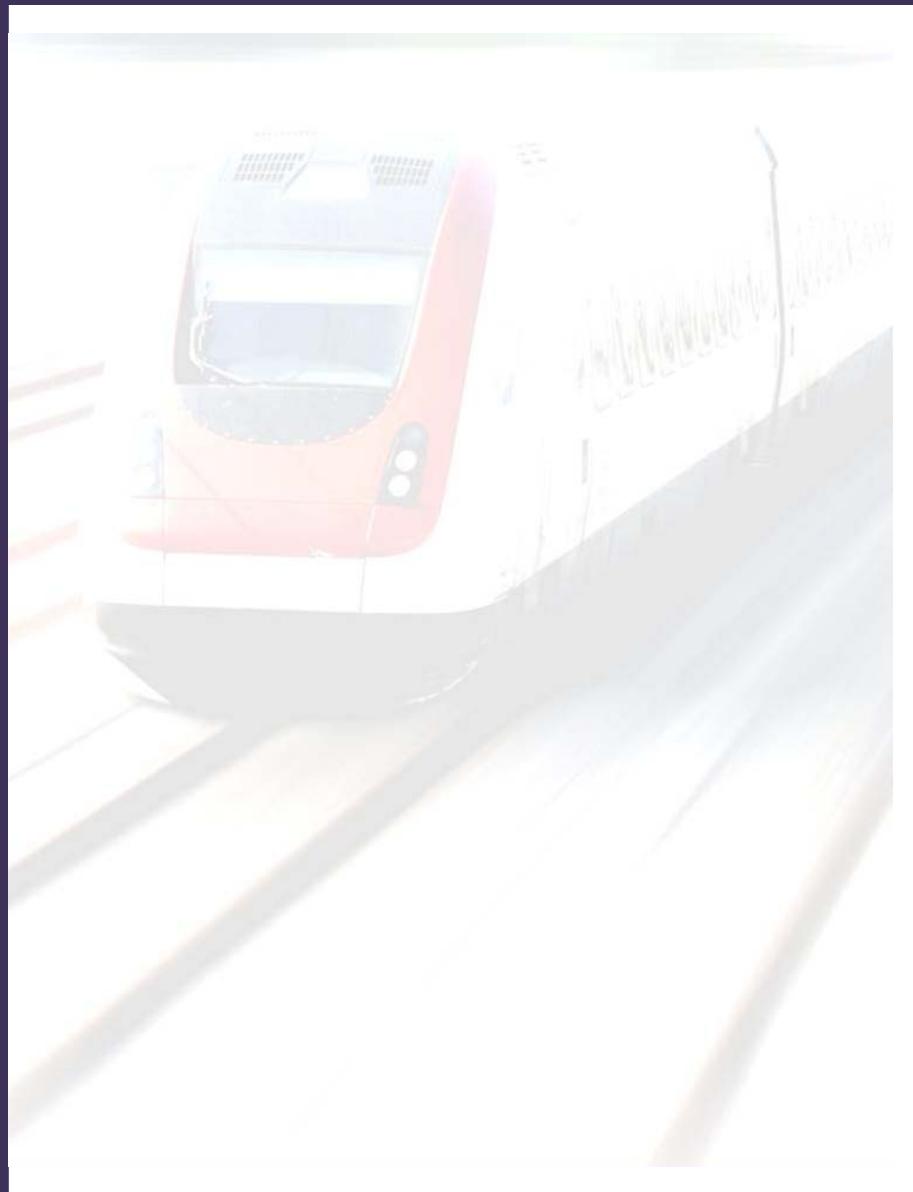
Introduction.....	1
Safe Procedures for Elevator Maintenance	2
Hallway Controls.....	3
Car Operating System	4
Car Frame Components.....	5
Top of the Car.....	6
Door Systems	7
Quick Review 1	8
Hoistway Doors.....	9
Guide Rail System	10
Selector	11
Pit	12
Hydraulic Elevator Components.....	13
Machine Room.....	14
Mainline Disconnect.....	15
Controller	16
Hydraulic Drive	17
Shutoff and Rupture Valves	18
Baffle and Muffler.....	19
Quick Review 2	20
Traction Elevator.....	21
Motor and Motor Generator.....	22
Electric Drive.....	23
Counterweight System.....	24
Sheave System.....	25
Governor.....	26
Brake System	27
Roped Hydraulic Components	28
Quick Review 3.....	29
Summary	30
Exercise 1: Car Frame Components	31
Exercise 2: Rupture Valve	32

List of Figures:

Figure 1: Car Operating System.....	4
Figure 2: Car Frame Components.....	5
Figure 3: Top of the Elevator Car	6
Figure 4: Pit Components	12
Figure 5: Controller	16
Figure 6: Rupture Valve	18
Figure 7: Counterweight System	24
Figure 8: Governor.....	26



Learner's Notes:



Introduction

Welcome to the Elevator Components and Controls Module.

What are your expectations for this module?

Elevator Components and Controls



Learner's Notes:



Safe Procedures for Elevator Maintenance

Describe the procedure for accessing the top of the elevator car.

Elevator Components and Controls



Learner's Notes:



Hallway Controls

Describe the sections of the Hallway Controls.

Floor or landing

Hall doors

Hall chimes (gongs)

Position indicator

Landing (Hall) controls
