

Instructor/Participant Guide



212: Escalator-Inspection & Basic Maintenance

Module 1: General Safety & Maintenance



Table of Contents:

Introduction.....	1
Types of Maintenance.....	2
Preventative Maintenance Plan.....	3
Goals of Preventative Maintenance	4
Lubrication Fundamentals.....	5
Inspection and Basic Maintenance.....	6
Barricades.....	7
Barricade Safety Reminder	8
Summary	9

Table of Figures:

Figure 1 Barricades.....	7
--------------------------	---

PREVIEW ONLY



Icons Used in This Guide

Throughout the Instructor’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	5 minutes
2	Overview <ul style="list-style-type: none"> • Types of maintenance • Preventative maintenance Plan • Goals of Preventative Maintenance • Lubrication Fundamentals • Inspection and Basic Maintenance 	40 minutes
3	Barricades	15 minutes
4	Local Safety Practices for Barricades and Signage	15 minutes
5	Summary	5 minutes
Total Time:		1.3 hours

PREVIEW ONLY



Overview

Purpose

The purpose of this module is to:

- Introduce participants to general safety and maintenance.

Objectives

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

- Identify general safety practices
- Relate safe work practice to escalator maintenance
- Basic understanding of the importance of preventive maintenance and proper lubrication

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 titles:

- Class Expectations



Instructor's Notes

General Safety & Maintenance

General Safety & Maintenance



Transit Elevator/Escalator Consortium

General Safety & Maintenance

Outline

- Identify general safety practices.
- Relate safe work practice to escalator maintenance.
- Basic understanding of the importance of preventive maintenance and proper lubrication.

Transit Elevator/Escalator Consortium

2

Slide 1

GAIN audience attention by introducing yourself.



WELCOME the participants to the General Safety & Maintenance Module.



ASK the participants what their expectation is of the course.



WRITE their expectations on the board so they can see how they align to the course objectives.

DIRECT participants to the objectives on slide 2.



REVIEW the objectives on Slide 2.

Slide 2

Introduction

Welcome to the General Safety & Maintenance Module.

What are your expectations for this module?



Instructor's Notes

General Safety & Maintenance

Preventative Maintenance Plan

- A good preventive maintenance plan is a structured approach to making sure that any equipment used in a system is functioning with the highest possible degree of efficiency.
- Serves two purposes:
 - keeps equipment working properly and extends the life of the equipment
 - corrective action which maintenance personnel must take to restore the equipment to its proper working order

Transit Elevator/ Escalator Consortium

4

Slide 4



REVIEW slides 4 in the PowerPoint presentation to discuss the details of a good preventative maintenance plan.



ASK: participants the purpose of a preventative maintenance plan. Also ask them if they can recall a time where they did not have a plan in place and what happened as a result.

Preventative Maintenance Plan

What is the purpose of a preventative maintenance plan?

Can you recall a time in the past where you did not have a preventative maintenance plan, and the results of such an action?



Instructor's Notes

General Safety & Maintenance

Lubrication Fundamentals

- The most important part of any preventive maintenance plan.
- Reduces friction and wear.
- Reduces operating temperature by absorbing and dissipating heat.
- Protects against corrosion.
- Keeps components clean.
- **LUBRICATION IS NOT AN OPTION AND IS REQUIRED BY CODE.**

Transit Elevator/ Escalator Consortium

Slide 6



REVIEW slide 6 and the fundamentals of proper preventative lubrication. Review the main purposes of scheduled lubrication.



ASK: What machines require scheduled lubrication?

Lubrication Fundamentals

What machines require scheduled lubrication?



Instructor's Notes

General Safety & Maintenance

Inspection and Basic Maintenance

- It is recommended that a team approach be used whenever two individuals are performing inspections and/or basic maintenance.
- Team should review proper communications and safety practices as required by your transit agencies, manufacturer, and governmental agencies.



Transit Elevator/ Escalator Consortium 7

Slide 7



REVIEW slide 7 and review how to perform an inspection and basic maintenance.

CONTENT: Direct participants to describe in their own words the purpose of a lubrication schedule.

APPLICATION FEEDBACK: now that we have discussed a little about maintenance, have the participants answer the following questions.



ASK: what type of approach is recommended for inspections or basic maintenance.

Inspection and Basic Maintenance

What type of approach is recommended for inspections or basic maintenance?

PREVIEW ONLY



Instructor's Notes

General Safety & Maintenance

Barricades- Safety Reminder

- Must be rigid and surround the work area. (42 inches tall)
- Must be securely connected and attached so that it cannot be moved easily.
- Must surround escalator to prevent public access.
- Must be in place before any landing plates, panels, or work is started on the escalator.



Transit Elevator/ Escalator Consortium

9

Slide 9



REVIEW slides 9 and review local safety practices for barricades and signage.

CONTENT: Direct participants to describe in their own words the importance of barricade signage.

APPLICATION FEEDBACK: now that we have discussed a little about local safety practices for barricades and signage, have the participants answer the following questions.



ASK what the minimum height of a barricade must be by regulation.

Barricade Safety Reminder

What is the minimum height a barricade must be by regulation?
