Instructor/Participant Guide



210: Escalator-Specific: Step Installation and Maintenance

Module 4: Step Band Maintenance Overview

>>>>> Transit Elevator/Escalator Consortium



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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	Safety Specific Procedures Related to Step Band	10 minutes
3	Matched Pairs of Chains	10 minutes
4	Upper End	15 minutes
5	Lower End	15 minutes
6	Inclines	15 minutes
7	Step Band and Tracking	20 minutes
8	Track Inspection and Maintenance	20 minutes
9	Causes of Wear	20 minutes
10	Standard Hand Tools	15 minutes
11	Problems with Track Systems	15 minutes
12	Conventional Step Band	15 minutes
13	Modular Step Band	15 minutes
14	Summary	5 minutes
	Total Time:	3.25 hours



Overview

Purpose

The purpose of this module is to:

Introduce participants to the step band maintenance overview.

Objectives

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

- Identify specific safety concerns as related to step band maintenance
- Determine the types of tools required
- Explain the procedures associated with step band inspection
- Determine causes of wear
- Identify problems with track systems/racks

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**

Preparation

PREPARE flip chart with the following title:

Class Expectations



Instructor's Notes

Lower End At the lower truss you want to observe the step chain on both the right and left Run the escalator on no speed and listen for grinding or squealing. Observe the step chain operation thru the carriage See if the carriage is movin freely; it is designed to rock or pulse under a load.)))): Transit Elevator/Escalator Consortium

Slide 7



REVIEW the lower end procedure on slide 7.

Ensure the participants understand how the upper and lower end procedures differ.



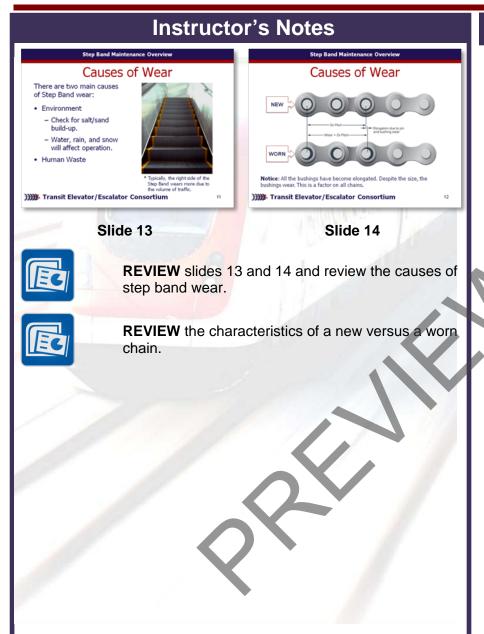
ASK the participants to describe the differences between the upper end maintenance procedure and the lower end maintenance procedure.

Lower End



Figure 1: Lower End: Landing Plate Removed

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Causes of Wear

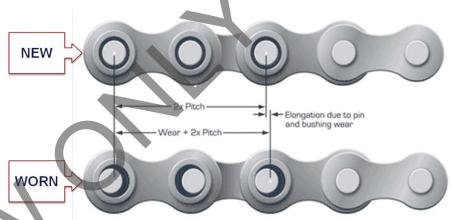


Figure 2: New vs. Worn Chain



