Instructor/Participant Guide



212: Escalator-Inspection & Basic Maintenance

Module 11: Code Compliance Overview/Jurisdictional Testing

>>>>> 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	Location of Codes	15 minutes
3	Frequency of Publication	10 minutes
4	 Field Usage/Application of Code Field Usage/Application of Code - External Field Usage/Application of Code - Internal Using the Code & Reference Code Using the Code - Technicians Code Writing Organizations How to Use the Codebook What Code to Use and When Locations of Information 	45 minutes
5	Summary	5 minutes
	Total Time:	1.3 hours



Overview

Purpose

The purpose of this module is to:

Review the Code mandated safety requirements for transit escalators.

Objectives

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

- Locate Code references.
- Describe how the Code applies to a given escalator
- Interpret the ASME A17.1 Code
- Apply ASME A17.1 Code standards to escalators

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 Location of Codes ASME Codes can be purchased: • The IBC can be purchased: ASME Order Department 22 Law Drive 5203 Leesburg Pike Suite 600 Box 2300 Fairfield, NJ 07007-2300 Falls Church, VA 22041 Telephone: (201) 882-1167 (800) 843-2763 Telephone: (703) 931-4533 http://www.iccsafe.org NFPA Codes can be purchased: National Fire Protection Association Quincy, MA 02269-7471 Telephone: (617) 770-3000 http://www.nfpa.org)))): Transit Elevator/Escalator Consortium Slide 4 **REVIEW** slide 4 and discuss where codes can be purchased. ASK: how many locations offer the option of purchasing the codes?

Location of Codes

How many locations offer the option of purchasing the codes?



Instructor's Notes Field Usage/Application of Code Field Usage/Application of Code The Guide for Inspection of Elevators, Escalators and External: - Operating and Safety Devices Moving Walks (ASME A17.2) details the testing - Fire Protection Skirt Obstruction Device Egress Restriction Device requirements for this equipment. - Geometry - Handrails · It ensures that during a periodic inspection, the Speed - Entrance and Egress Ends Jurisdictional Inspector will check the following: Balustrades - Lighting - Ceiling Intersection Guards - External - Caution Signs Step/Skirt Clearances, Panels and Performance Combplate and Comb Step Impact Device - Internal - Deck Barricades and Antislide Outdoor Protection - Steps and Upthrust Device Maintenance Records)))). Transit Elevator/Escalator Consortium Slide 6 Slide 7 **REVIEW** slide 6 and 7 and discuss what codes discuss external inspection. ASK: what code and section covers what the jurisdictional inspector will check during an external inspection?

Field Usage/Application of Code - External

What code and section covers what the Jurisdictional Inspector will check during an external inspection?



Using the Code & Reference Code Instructor's Notes List the code associated with the following descriptions. Using the Code & Reference Code Using the Code & Reference Code · There are fourteen Codebooks, one employee safety handbook, and ASME A17.6 is the Standard for Elevator Suspension, Compensation **ASME A17.1** several local government Codebooks. ASME A17.7 is the Performance-Based Safety Code for Elevators and · The following are the employee's safety handbook and the national - ASME A18.1 is the Safety Standard for Platform Lifts and Stairway - ASME A17.1/CSA B44 is the Safety Code for Elevators and ICC/ANSI - 117.1 is the Code for Accessible & Usable Buildings and **ASME A17.2** is the Guide for Inspection of Elevators, Escalators, and Moving Walks. NEC is the National Electrical Code book ASME A17.3 is the Safety Code for Existing Elevators and Escalators (includes requirements for electric and hydraulic elevators and IBC is the International Building Code. International Electrical Code (NFPA 70) escalators). ASME A17.4 is the Guide for Emergency Personnel. Life Safety Code (NFPA 101). ASME A17.5/CSA B44.1 This Code provides the requirements for Standard for Fixed Guide way Transit and Passenger obtaining, labeling and listing electrical equipment for elevators, escalators, moving walks, dumbwaiters, material lifts and stairway lifts. **ASME A17.3** Transit Elevator/Escalator Consortium)))). Transit Elevator/Escalator Consortium Slide 10 Slide 11 **REVIEW** slide 10 and 11 to review how to use and reference the code. **ASME A17.5** ASK participants to list the code associated with the proper description. **ASME A18.1**



Instructor's Notes Code Writing Organizations · All organizations revise their Code manuals within a three to five year time period. . The ASME A17.1 Code applies to the year the escalator was installed and the year the Code was enforced. • The latest A17.3 Code requires the owner to install Code data plates on all vertical equipment so maintenance personnel will know when the escalator was installed and be able to determine what year of the Code applies to the escalator. • The Codebooks are updated every 2-3 years and adopted by the local governments.))))** Transit Elevator/Escalator Consortium Slide 13 **REVIEW** slide 13 and review how long it takes for organizations to write codes, and how often they are updated. ASK How often are the codebooks updated?

Code Writing Organizations

How often are the codebooks updated?



Instructor's Notes What Code to Use and When? • Find the escalator's data plate. . If it is a new installation, you will use the ASME A17.1-Safety Code for Elevators and Escalators and the year applying to the installation. · If you are planning to inspect the escalator, you can use ASME A17.2 that is the Guide for Inspection of Elevators, Escalators, and Moving Walks. . If the escalator has been in service, you can use ASME A17.3 as the Safety Code for Existing Elevators and - The term $\textbf{Safety Integrity Level}\ (SIL)$ is for specifying the safety integrity requirements of the safety functions allocated to safety devices and systems.)))). Transit Elevator/Escalator Consortium Slide 17 **REVIEW slide 17** and discuss ASME A17.1-A17.3. ASK where can you locate the escalators data plate?

What Code to Use and When

Where can you locate the escalators data plate?





