

PD100

Introduction to the Maintenance & Inspection of Elevators and Escalators

CEUs: 1.5

PDHs: 15

Number of Days: 2

This course covers the essential design and operation of elevator and escalator systems and will address the terminology and functions of the various associated mechanical and electrical components.

This course is a good foundation for the ASME course **PD102: How to Perform Elevator Inspections Using ASME A17.2.**

By participating in this course, you will learn to:

- Describe the application of various codes and standards that apply to elevators, escalators, and moving walks
- Identify the various types of equipment used in driving means of electric and hydraulic elevators
- Identify hoistway and pit equipment and their functions, including types of suspension means
- Recognize various modes of operations and controls, including automatic, selective collective, car switch, constant pressure and inspection,
- Identify machine room components, including location of equipment for machine room-less elevators
- Identify various types of elevators, such as Passenger, Freight, Private Residence, Special Purpose Personnel, Sidewalk, Rooftop, Limited Use Limited Application and Inclined, as well as dumb waiters and materials lifts
- Identify the classifications of freight elevators
- Identify various types of car and hoistway entrances
- Identify escalator and moving walk components and daily check requirement
- Describe emergency evacuation procedures and fire Emergency Operation

Course Materials

- Each participant will receive access to *The ASME A17.4 Guide for Emergency Evacuation of Passengers from Elevators* via ASME's digital collection for the duration of the course.
- Digital course notes via ASME's Learning platform

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Topics Covered

- Introduction and terminology
- Hoistway and equipment
- Safety while servicing elevators
- Types of elevators
- Types of driving machines
- Control and operations
- Doors and gates
- Car and counterweight safety and pit equipment
- Machine space and equipment
- Emergency evacuation
- Escalators and moving walks
- Final review and test