



PD102
ASME 17.1 Safety Code and A17.2 Inspection Requirements

Day One

- Introduction to applicable codes
- Service safety video
 - Exercise on service safety
- Applicable codes
 - Exercise on applicable codes
- Inspection inside the car
- Inspection outside of the hoistway
- Inspection in the machine room
- Review

Day Two

- Hoistway and top of car inspection
- Rope and fastening inspection
- Inspection in the Pit
- Elevator construction safety video
 - Exercise on construction safety
- Acceptance and periodic tests of electric elevators
 - Car and counterweight governors
 - Car and counterweight safeties
 - Standby power operation
 - Car and counterweight oil buffers
 - Brake
 - Terminal stopping devices
 - Static controlled elevators
 - Winding drum machine slack rope
 - Standby power
 - Ascending car and unintended motion
- Exercise on sample elevator
- Exercise on testing
- Firefighters' service tests and checklist

Day Three

- Exercise on firefighters' service
- Hydraulic machine room
- Hydraulic hoistway and pit
 - Hydraulic acceptance and periodic test
 - Relief valve setting
 - Flexible pressure hose
 - Unexposed cylinder and piping
 - Pressure switch
 - Operating pressure verification
 - Bottom plunger clearance
 - Speed-rated speed up and operating speed down
- Sample hydraulic elevator
- Review study and open questions
- Final test

Throughout the course:

- Review of inspection requirements for each item on the inspection checklist in the new *Inspectors' Manual for Elevators*
- Sample worksheets to record and clarify elevator test requirements and measurements
- Review safety practices for inspection and maintenance highlighted in the inspectors' manuals and *Elevator Industry Field Employees' Safety Handbook*
- Drawings and diagrams that illustrate code requirements and checking techniques
- Participant interaction with instructors and each other regarding inspection techniques