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