



## **CONTINUING EDUCATION**

### **CE017.2 Hydraulic Elevator Testing**

#### **8 Hours**

**Objective:** Upon successful completion of this course, you will be able to...

- Identify the steps of category one, category three and category five safety testing procedures specific to hydraulic elevators
- Explain the purpose of the safety testing process for category one, category three and category five safety tests.
- Conduct category one, category three and category five safety tests for hydraulic elevators

#### **COURSE OUTLINE**

## **Testing Hydraulic Elevators**

### **Online Continuing Education Course For State Licensing Renewal**

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#### ***NEIEP CONTINUING EDUCATION SERIES***

**PROGRAM:** National Elevator Industry Educational Program Continuing Education

**DIVISION:** Licensing Renewal

**COURSE CONTACT HOURS: 8**

**CATALOG DESCRIPTION:**

This course is designed to provide the Licensed Elevator Constructor with industry specific continuing education in an effort to satisfy the requirements established in, and in accordance with, the appropriate Administrative Code having jurisdiction.

**COURSE CONTENT:**

- Elevator Mechanics License Renewals
- Hydraulic Elevator related Code Articles – ASME A17.2

**Required Testing**

- 1 Year Interval
- 3 Year Interval
- 5 Year Interval

**Tools for Testing**

- Tachometers
- Pressure gauges
- Remote run buttons
- Drill motors with rubber wheels
- Seals
- Sealing tools

**Discussion of System Pressures****Category 1 Hydraulic Elevator Testing**

- Relief Valve Settings and System Pressure
- Normal Car Operation
- Performing a Relief Pressure Test
- One Man Pressure Test
- Procedure for One Man Pressure Relief Valve Test
- 8.11.3.2.2 Cylinders (15 min leak test)

### Additional Tests

- Testing Normal and Final Terminal Stopping Devices
- Testing Power Operation of Door System
- Low Oil Protection Operation
- Testing Flexible Host and Fitting Assemblies
- Testing of Pressure Switches
- Roped Hydraulic Elevators: Requirements for Annual Inspection of Governors
- Requirements for Annual Inspection of Safeties
- Performing Annual Safety and Governor Test
- Annual Governor Inspection
- Annual Inspection of Safeties
- Testing Firefighters Emergency Operation
- Testing Phase 1 Emergency Recall
- Elevator Recall through Smoke Detectors
- Phase 2 Emergency In-Car Operation
- Testing Standby or Emergency Power Operation
- Category 3 Requirements
- Category 5 Periodic Test Requirements
- Governors: 5 Year
- 5 Year Test of Safeties
- Hoist Ropes and Fastenings: 5 Year Tests

### Test Forms: All Categories

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