



Maintain Pressure Vessels & Inspecting Vent Relief Systems

Course Introduction:

A safety or safety relief valve can be considered the most important single safety device on a boiler, piping, pipeline or pressure vessel. If it fails to function in the manner for which it was intended and an overpressure condition develops, the result could be catastrophic. Like all mechanical devices, pressure relief valves require periodic maintenance and repair. To properly carry out repairs, it is essential that the work be done by trained personnel under controlled conditions, using proper parts and procedures.

This five-day course covers all areas of pressure relief valves, including inspection, repair, operation and assembly. This course provides the best understanding of what is involved in the repair of pressure relief valves, all areas of pressure relief valves, including inspection, repair, and assembly. While not hands-on training, this course provides a better understanding of what is involved in the repair of pressure relief valves.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- ✓ Obtain an in-depth knowledge and understanding on the organizations affecting standards development and enforcement, jurisdictional requirements, ASME Code Sections I and VIII
- ✓ Recognize the principles of pressure relief valve operation, development and application of pressure relief valves
- ✓ Install and operate pressure relief valves
- ✓ Identify the operational malfunctions of pressure relief valves
- ✓ Select testing facilities
- ✓ Recognize pressure relief device certifications
- ✓ Distinguish pressure relief valve repair, nameplate data interpretation and stamping, pressure relief valve disassembly
- ✓ Carryout critical inspection, lapping and grinding
- ✓ Determine PRV assembly and apply setting, testing and sealing
- ✓ Implement quality control systems, nondestructive examination
- ✓ Recognize training and qualification of personnel and pilot-operated pressure relief valves

Who Should Attend?

This intensive five-day instructional course program covering the educational needs of inspection engineers, technical management, quality control and technical supervisory personnel involved in pressure relief valve repair, inspection, operation or maintenance. No specific prerequisite training or experience required for registration.

Course Outline:

Day 1:

Introduction

- Principles of pressure relief valve operation
- Development and application of pressure relief valves
- Installation and operation of pressure relief valves
- Operational malfunctions of pressure relief valves
- Testing facilities

Day 2:

- pressure relief device certifications
- pressure relief valve repair
- nameplate data interpretation and stamping
- pressure relief valve disassembly
- critical inspection

Day 3:

- lapping and grinding
- PRV assembly
- Setting, testing and sealing
- Quality control systems
- Nondestructive examination

Day 4:

- Pilot-operated pressure relief valves
- National board inspection code and PTC 25
- ASME Code Sections I and VIII
- "VR" certification program
- "VR" administrative rules and procedures

Day 5:

- Review and Open Discussion

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

The rate includes participant's manual, and-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee/Tea
08:20 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Coffee/Tea/Snacks)
13:30 - 15:00	Last Session