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Course Name

API RP 576: Inspection of Pressure-Relieving Devices

Sector Name

Mechanical Engineering

Document Type

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API RP 576: Inspection of Pressure-Relieving Devices

Course Introduction

Inspection of Pressure-Relieving Devices Course

A Professional Training Program from Boost for Vocational Training and Qualification

Pressure-relieving devices (PRVs/PSVs) are the final and most critical line of defense against disasters in industrial facilities. Any failure in their performance can lead to catastrophic results.

Through the Inspection of Pressure-Relieving Devices course provided by Boost, we transition trainees from surface-level knowledge to full professional mastery in inspecting, testing, and maintaining these devices according to the latest 2026 international standards.

Why Choose Technical Training for Inspection of Pressure-Relieving Devices with "Boost"? You will learn:

- ✓ Compliance with Global Standards: The course focuses deeply on API 576 and ASME Section VIII standards, ensuring your team operates according to international safety codes.
- ✓ Prevention Before Repair: We teach your team how to detect corrosion, chemical erosion, and blockages before they lead to device failure.
- ✓ Operational Test Simulation: Hands-on training on how to perform "Pop Tests" and calibrate set and reseating pressures with extreme precision.
- ✓ Device Lifecycle Management: From installation and periodic testing to documentation and issuing certificates of validity.

Features of the Inspection of Pressure-Relieving Devices Course from Boost

The team will gain many advantages upon completing the training program:

- ✓ Industry Experts: Trainers are internationally certified inspection engineers (API Certified) with field experience in major refineries and power plants.
- ✓ Focus on Return on Investment (ROI): Reducing downtime and extending the lifespan of equipment through proper inspection.
- ✓ Modern Inspection Tools: Training on using digital testing devices and ultrasonic techniques to detect hidden flaws.

Benefits of the Course for Your Company

- ✓ Ensuring compliance with all governmental and international inspections without violations.
- ✓ Reducing the probability of explosive accidents and hazardous material leaks to near zero.
- ✓ Transforming the maintenance team from "executors" to "strategic inspectors" capable of making critical decisions regarding equipment safety.

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Target Audience

- ✓ Engineers and technicians involved in the design, operation, and maintenance of pressure-relieving devices.
- ✓ Safety and compliance professionals in the oil and gas, chemical, and petrochemical industries.
- ✓ Quality assurance and inspection personnel.

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Learning Objectives

- ✓ Understand the principles and importance of pressure-relieving devices.
- ✓ Identify different types of pressure-relieving devices and their components.
- ✓ Conduct inspections according to API RP 576 guidelines.
- ✓ Recognize and resolve common issues associated with pressure-relieving devices.
- ✓ Implement effective maintenance strategies to ensure compliance and safety.

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Course Outline

✓ 01 DAY ONE

Introduction to Pressure-Relieving Devices

Session 1: Overview of Pressure-Relieving Devices

- ✓ Definition and purpose of pressure-relieving devices.
- ✓ Importance in safety and regulatory compliance.

Session 2: Types of Pressure-Relieving Devices

- ✓ Different types: safety valves, relief valves, and rupture disks.
- ✓ Discussion of design features and operational principles.

Session 3: Regulatory Standards and Guidelines

- ✓ Overview of API RP 576 and its relevance.
- ✓ Understanding other relevant standards (ASME, NFPA).

Session 4: Device Components and Functionality

- ✓ Detailed examination of components: seats, springs, and nozzles.
- ✓ Operational mechanics of pressure-relieving devices.

Session 5: Safety Considerations

- ✓ Safety implications of improperly functioning devices.
- ✓ Case studies of incidents due to device failures.

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Course Outline

✓ 02 DAY TWO

Inspection Procedures and Techniques

Session 1: API RP 576 Inspection Requirements

- ✓ Overview of the inspection process outlined in API RP 576.
- ✓ Understanding inspection intervals and documentation.

Session 2: Visual Inspection Techniques

- ✓ Techniques for conducting visual inspections.
- ✓ Identifying signs of wear, corrosion, and other defects.

Session 3: Functional Testing of Pressure-Relieving Devices

- ✓ Procedures for performing functional tests.
- ✓ Equipment and tools required for testing.

Session 4: Calibration and Performance Testing

- ✓ Importance of calibration in maintaining device accuracy.
- ✓ Techniques for verifying performance against specifications.

Session 5: Hands-On Inspection Practice

- ✓ Participants will conduct visual inspections on sample devices.
- ✓ Discussion of findings and identification of potential issues.

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Course Outline

✓ 03 DAY THREE

Troubleshooting and Maintenance

Session 1: Common Issues with Pressure-Relieving Devices

- ✓ Discussion of typical problems and failure modes.
- ✓ Analyzing root causes of failures.

Session 2: Troubleshooting Techniques

- ✓ Approaches for diagnosing issues.
- ✓ Case studies on effective troubleshooting strategies.

Session 3: Maintenance Strategies and Best Practices

- ✓ Developing maintenance plans for pressure-relieving devices.
- ✓ Importance of preventive maintenance.

Session 4: Regulatory Compliance and Record Keeping

- ✓ Requirements for maintaining inspection records.
- ✓ Documentation practices for compliance audits.

Session 5: Group Activity: Troubleshooting Scenarios

- ✓ Team-based exercises to analyze and resolve hypothetical issues.
- ✓ Presentations of group findings and solutions.

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Course Outline

✓ 04 DAY FOUR

Advanced Topics in Pressure-Relieving Devices

Session 1: Recent Developments and Technologies

- ✓ Overview of advancements in pressure-relieving device technology.
- ✓ Emerging trends in inspection techniques.

Session 2: Risk Assessment and Management

- ✓ Understanding risk assessment in relation to pressure-relieving devices.
- ✓ Methods for conducting risk assessments.

Session 3: Integration with Safety Management Systems

- ✓ Role of pressure-relieving devices in overall safety management.
- ✓ Best practices for integrating inspection into safety programs.

Session 4: Regulatory Updates and Industry Trends

- ✓ Discussion of recent changes to regulations impacting pressure-relieving devices.
- ✓ Implications for compliance and operational practices.

Session 5: Case Studies and Lessons Learned

- ✓ Review of real-world incidents and the lessons learned.
- ✓ Group discussions on improving practices based on case studies.

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Course Outline

✓ 05 DAY FIVE

Final Assessments and Course Wrap-Up

Session 1: Review of Key Concepts

- ✓ Recap of critical information covered throughout the course.
- ✓ Q&A session for clarification of concepts.

Session 2: Final Assessment

- ✓ Written or practical assessment to evaluate participant understanding.
- ✓ Feedback on performance and areas for improvement.

Session 3: Developing an Action Plan

- ✓ Participants will create a personal action plan for applying course knowledge.
- ✓ Sharing of action plans and group discussion.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 14, 2027	March 18, 2027	5 days	4250.00 $	Qatar , Doha
April 19, 2027	April 23, 2027	5 days	4250.00 $	UAE , Dubai
Sept. 13, 2027	Sept. 17, 2027	5 days	4950.00 $	Austria , Vienna
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 $	UAE , Abu Dhabi

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