

€ TRAINING

ASME Boiler with Pressure Vessel Code and
B31 Pressure Piping Codes



11 - 15 November 2024
London (UK)



ASME Boiler with Pressure Vessel Code and B31 Pressure Piping Codes

REF: KJ409 DATE: 11 - 15 November 2024 Venue: London (UK) - Fee: 6375 Euro

Introduction:

This training program covers the essential principles and regulations outlined in the ASME Boiler and Pressure Vessel Code BPVC and B31 Pressure Piping Codes. It empowers participants to ensure compliance with these critical standards, improving safety, integrity, and efficiency in pressure vessels and piping systems.

Program Objectives:

By the end of this program, participants will be able to:

- Understand the key components and requirements of the ASME Boiler and Pressure Vessel Code.
- Apply the ASME B31 Pressure Piping Codes for safe and efficient piping system design and maintenance.
- Implement quality control and inspection practices in line with ASME standards.
- Ensure compliance with regulatory requirements for boilers, pressure vessels, and piping systems.
- Manage the maintenance and repair of pressure equipment while adhering to ASME codes.

Target Audience:

- Plant Engineers.
- Maintenance Managers.
- Pressure Vessel Inspectors.
- Safety and Compliance Officers.
- Professionals responsible for pressure equipment and piping systems.

Program Outline:

Unit 1:

Introduction to ASME Boiler and Pressure Vessel Code BPVC:

- Overview of ASME BPVC and its importance in industrial safety.
- Structure and organization of the ASME BPVC.
- Key sections relevant to the design, fabrication, and inspection of boilers and pressure vessels.

- Application of ASME BPVC in different industries.
- Importance of Compliance with local and international regulations based on ASME BPVC.

Unit 2:

ASME Section VIII: Pressure Vessels:

- Detailed review of ASME Section VIII, focusing on design, fabrication, and inspection of pressure vessels.
- Materials selection and code requirements for pressure vessels.
- Design considerations for ensuring vessel safety and integrity.
- Inspection and testing requirements as per Section VIII.
- Case study: Implementation of ASME Section VIII in a manufacturing plant.

Unit 3:

ASME B31 Pressure Piping Codes Overview:

- Introduction to ASME B31 family of codes for piping systems.
- Key differences and applications of B31.1 Power Piping and B31.3 Process Piping.
- Design, materials, and construction requirements for pressure piping systems.
- Quality assurance and testing in accordance with ASME B31 codes.
- Documentation and record-keeping for compliance with piping codes.

Unit 4:

Inspection and Maintenance of Pressure Equipment and Piping:

- Inspection techniques for pressure vessels and piping systems.
- Identifying common failure mechanisms in pressure systems.
- Risk-based inspection and maintenance strategies.
- Implementing non-destructive testing NDT in pressure equipment inspection.
- Documentation and reporting for maintenance activities to ensure compliance.

Unit 5:



Compliance, Safety, and Quality Control in Pressure Systems:

- Ensuring compliance with ASME BPVC and B31 codes for safe operation.
- Quality control programs for pressure vessels and piping systems.
- The role of the third-party inspections and certification in maintaining compliance.
- Addressing regulatory challenges and ensuring alignment with global standards.
- Continuous improvement through adherence to ASME codes and best practices.