

ASME Code, Section VIII, Division 1: DESIGN AND FABRICATION OF PRESSURE VESSELS

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1-3 July 2026 | 3 Days Online Course
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COURSE OUTLINE

Day 1: Introduction and Fundamentals of ASME VIII-1 Design

- Welcome and Course Overview
- Introduction to instructor and participants
- Objectives and structure of the training program
- Overview of ASME VIII-1 standards

2. Introduction to ASME Boiler and Pressure Vessel code

- Purpose, History, and Evolution
- Scope and Applicability of Section VIII Division 1

3. Certificates of Authorization

- Qualification Requirements
- Roles, Responsibility, and Authorization Process

4. Structure and Organization of ASME Section VIII, Division 1

- Detailed breakdown of the Code
- Navigation Techniques and Key Definitions

5. Fundamental Principles for Pressure Vessel Construction

- Types of Joints and Welding Categories
- Static Head Considerations in Design
- Basic Calculations and Reference Charts
- Radiographic Testing (RT) Requirements and RT Factors

6. Case Study: Practical Application of ASME VIII-1

Day 2 : ASME VIII-1 Material and Fabrication Standards

7. Material Requirements

- Material Selection and Specifications
- Identification, Traceability, and Testing Standards

Training Live Virtual Courses offer participants the same instructors, training systems, course materials, personal support, and face-to-face engagement with instructors and other participants that they would expect to find in a conventional classroom.

The ASME VIII Div 1 Pressure Vessels Live Virtual Course brings participants together in a virtual classroom, where they receive training from an expert via a live video link. Participants are interconnected via audio and video, enabling them to interact both with the instructor and with their classmates. Learners can speak to their instructor at any time to ask questions, request assistance, and instructors can provide hands-on support.

Course Overview

Based on the rules for pressure vessel design and construction, this course is a comprehensive introduction to the requirements of Section VIII, Division 1 including background, organization, design, materials, fabrication, inspection, testing and documentation of pressure vessels operating at either internal or external pressures exceeding 15 psig. Careful application of this Section will help users to comply with applicable regulations within their jurisdictions, while achieving the operational, cost and safety benefits to be gained from the many industry best-practices detailed within these volumes.

Who Should Attend

Individuals involved with design, analysis, fabrication, purchasing, repair, and inspection of pressure vessels, as well as supervisory and regulatory personnel. Some degree of technical background will be helpful, but such individuals are not required to have an Engineering degree or previous work experience in the subject matter. Both beginners and experienced personnel involved with pressure vessels will benefit from this course.

Upon completion of this course you will be able to:

- Understand the background of the Code rules
- Apply the Code rules to more common design and fabrication situations
- Perform calculations for some of the loadings and situations not addressed by the Code
- Use Appendix 46, which allows the use of the Design by rule methods of Part 4 of the ASME Code Section VIII Division 2
- Prepare design specifications, design reports, Data Reports, and other documentation



8. Fabrication Processes

- Fabrication Sequence and Traceability
- Forming, Welding, and Inspection Protocols

9. Heat Treatment Requirements

- Heat Treatment Methods
- ASME Code Requirements

10. Advanced Topics in Material and Fabrication

- Updates and Integration

11. Case Study: Material Selection and Fabrication

Day 3 : Testing, Quality Assurance, and API

Inspection Codes

12. Non-Destructive Testing (NDT)

- Techniques: RT, UT, MT, PT
- Personnel Qualifications and Procedures

13. Pressure Testing

- Safety Procedures for Hydrostatic and Pneumatic Testing
- Minimum Design Metal Temperature (MDMT) Considerations

14. Documentation & Stamping

- Manufacturer Data Reports
- ASME Code Compliance Documentation

15. API Inspection Codes Overview

- Introduction to API 510: Pressure Vessel Inspection
- Inspection Planning, Intervals, and Methods

16. Case Study: Turnaround planning

ABOUT THE PRESENTER: Denzil Bazley



A registered Professional Engineer, holder of the Government Certificate of Competence (GCC Mechanical) and member of the SA institution of Mechanical Engineers.

Having 30 years experience in maintenance management and training in a variety of industries including 10 years of experience in the Petrochemical oil and gas industry, FMCG, 11 years of experience in the water and wastewater industry.

His skill set includes: General Management, Maintenance Management, Shutdown and Turnaround management, Project Management, Production Management, Safety Management, Industrial Relations, Change Management.

He has trained in more than 10 countries.

Denzil presents the following courses:

Pressure Safety Valve

Safe & Efficient Boiler Operation



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