



PD725

BPV Code, Section VIII, Division 1: Design & Fabrication with Inspections, Repairs and Alterations of Pressure Vessels

Course Outline

Day 1

Module 1

- Introduction to ASME Boiler & Pressure Vessel Code and Section VIII
- General Requirements
- Materials Requirements

Module 2

- General Design Requirements
- Design for Internal Pressure

Day 2

Module 3

- Design for Buckling
- Design of Flat Heads and Covers
- Design of Openings

Module 4

- Design for Nozzle External Loadings
- Fabrication Requirements
- NDE (nondestructive examination), Testing, Pressure Relief, and Documentation Requirements

Day 3

Module 5

- Requirements for Carbon and Low Alloy Steels
- Requirements for High Alloy Steels
- Requirements for Heat Treated Materials
- Code Appendices

Day 4

Module 5

- Material toughness requirements

Module 6

- Example Problems



Day 5

- Module 7: Introduction to In-Service Codes and Standards
 - Introduction to Post Construction Activities
 - Introduction to NBIC and API 510
 - Introduction to Other Documents
- Module 8: National Board Inspection Code (NBIC) Rules
 - Introduction to the NBIC
 - Part 1 – Installation
 - Part 2 - Inspection
 - Part 3 – Repairs and Alterations
- Module 9: API-510 Rules
 - Scope of API-510
- Module 10: Introduction to API-579
- Module 11: ASME and PVRC Post-Construction Documents