

**PD442:
ASME BPV Code, Section VIII, Division 1: Design and Fabrication of Pressure Vessels**

Course Outline

Day 1

Module 1

- Introduction to ASME Codes and Section VIII
- General Requirement
- 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

- Fabrication Requirements
- NDE (nondestructive examination), Testing, Pressure Relief, and Documentation Requirements
- Requirements for Vessels Fabricated by Welding

Day 3

Module 5

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

Module 6

- Example Problems