EL501: ASME BPV Code, Section VIII, Division 1: Design and Fabrication of Pressure Vessels

Course Outline

Module 1
- Introduction to ASME Codes and Section VIII
- General Requirement
- Materials Requirements

Module 2
- General Design Requirements
- Design for Internal Pressure

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

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