

**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