



MC151
Design-by-Rule (DBR) Methods of ASME BPV Code, Section VIII, Division 2

Day 1

- General Overview Layout of ASME VIII-2
- Common Rules and Code Case 2695
- Relationship of ASME VIII-2 and ASME VIII-1, paragraph U-2(g)
- Part 3
 - General Overview of Part 3
 - Paragraph 3.11, Material Toughness Requirements
 - ASME VIII-2 philosophy
 - Differences and why the change from ASME VIII-1 philosophy
 - Case Study: VIII-1 vs. VIII-2
- Part 4
 - General Overview of Part 4
 - Paragraph 4.1.5.3 Design Loads and Load Case Combinations
 - Table 4.1.1, Design Loads
 - Table 4.1.2, Design Load Combinations
 - Paragraph 4.2, Design Rules for Welded Joints
 - Weld categories, weld types, weld joint efficiencies
 - Table 4.2.4 – Table 4.2.14, weld joint details

Day 2

- Part 4
 - Paragraph 4.3, Design Rules for Shells Under Internal Pressure
 - Paragraph 4.4, Design Rules for Shells Under External Pressure
 - Paragraph 4.5, Design Rules for Openings in Shells and Heads
 - Paragraph 4.12, Design Rules for Noncircular Vessels
 - Paragraph 4.15, Design Rules for Supports and Attachments
 - Paragraph 4.16, Design Rules for Flanged Joints
 - Paragraph 4.18, Design Rules for Shell and Tube Heat Exchangers
 - Paragraph 4.19, Design of U-Shaped Reinforced Bellows
- Part 7
 - General Overview of Part 7
 - Development/presentation of Examination Group