

(ME#07A) ASME BOILER AND PRESSURE VESSEL CODE: Section VIII, Division 1, Design and Fabrication of Pressure Vessels



Course Overview

Based on the rules for pressure vessel design & construction, this 3-day training course covers the requirement of ASME Section VIII, Div. 1, including organization, design, materials, fabrication, inspection, testing and documentation of pressure vessels.

What you will learn

- Background of the ASME Code
- Introduction to the basic concepts of the ASME Code and design fundamentals
- Design of shell, heads and other pressure parts
- Design of nozzles and nozzle reinforcements
- Design for external pressure
- Calculations for some of the loadings not addressed by the Code
- Design requirements for low temperature operation
- Fabrication and inspection requirements
- Pressure testing, certificates and stamping of pressure vessels
- ... and much more

Instructor



Mr. Ramesh Tiwari is a member of ASME, and holds Bachelor's and Master's degrees in Mechanical Engineering. He is also a registered Professional Engineering the state of Maryland in the United States. He is a member of ASME Section VIII Subgroup on Heat Transfer Equipment, and member of ASME IWG in India on B31.1 for Power Piping.

With over 22 years of experience with pressure vessels, heat exchangers and tanks used in oil & gas and power industry Mr. Ramesh has worked with engineering organizations and pressure vessel manufacturers in US, Germany & India. Apart from that, he has given pressure vessel trainings in Canada and India, and has held several in-house workshops in United States. Mr. Ramesh is also an approved pressure vessel instructor at NTPC, a premier thermal power generating company in India.

Content

DAY ONE

- Finding Your Way around the Pressure Vessel Code
- General Design Considerations
- Material of Construction
- Low Temperature Operation
- Joint Efficiencies

DAY TWO

- Design of Shell Sections
- Design of Conical Sections
- Design of Formed Heads and Flat Heads
- Openings and Reinforcements
- Nozzle Loads (WRC Bulletin 107)

DAY THREE

- Design of Flanges
- Design of Tall Towers
- Design of Column Supports
- Fabrication and Heat Treatment
- Inspection and Tests
- Markings and Reports

Who Should Attend

This course is designed for designers, engineers, managers, manufacturers, quality personnel and inspectors who are involved in the design, fabrication and examination of pressure vessels and heat exchangers built to the requirements of ASME Code, Section VIII, Div. 1

Duration

3-days

For more details, kindly contact:

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