ENGINEERING TRAINER



Online Course





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Course Objective

"To explain the fundamental equations and principles, thereby creating a solid understanding of the ASME BPVC VIII-1 design code."

Program

in

Module 1	Introduction to ASME BPVC VIII-1 and Related Physical Concepts	1hr 3min
Module 2	Stress Concepts and Allowables	30min
Module 3	Components Subjected to Internal Pressure	21min
Module 4	Components Subjected to External Pressure	32min
Module 5	Openings in Shells	27min
Module 6	Flat Heads and Flanges	36min
Module 7	Heat Exchangers	26min
Module 8	Vessels of Non-Circular Cross Section and Half Pipe Jackets	13min

Results





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RESEARCH GROUP.

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ENGINEERING TRAINER

Designing according the ASME BPVC VIII-1 code

Online Course

Provided by



Daniel van Baalen, MSc Project Engineer, Dynaflow Research group

Mechanical, Piping, FEA, Flow

DYNAFLOW RESEARCH GROUP.

Dynaflow Research Group specializes in the advanced end of the engineering spectrum. Their work often requires a multi-disciplinary approach: encompassing the static and dynamic analysis of both fluids and gases, and mechanical components.

They are at their best when creative thinking and a practical approach are required to tackle a problem.

Course Summary

Design-by-Rules. The ASME VIII-1 design code is the most widely used design code for pressure vessel design. Often the rules are applied using automated software packages such as Compress or PVElite and the engineer can lose the overview of the calculation being performed. This course aims to explain the fundamental equations and principles in the design by rules approach. For example: What is the area replacement rule? How is the Taylor and Forge method applied for flanges? What is the minimum ligament length between nozzles and why? What inter-stiffener distance is required to prevent collapse under vacuum?

Topics include many design features such as design of shells and heads under internal and external pressure, nozzles & openings, flange connections, heat exchanger, tubesheets, saddles and skirts.

As well as explaining the rules and how to apply them, you will be challenged on why a rule is formulated in a particular way.

The course consists of 8 online modules based on video content. You receive 1-year unlimited access to the course and the discussions forum. This allows you to perform modules again when you need to refresh knowledge for your work projects.

Who should attend this course

- Those designing pressure vessels with ASME BPVC VIII Div. 1
- Engineers which need to have a solid understanding of the approaches used in the code,
- Those that wish to understand the backgrounds and design basis for the code rules

Prerequisities

- Technical background
- Level I Intermediate

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