

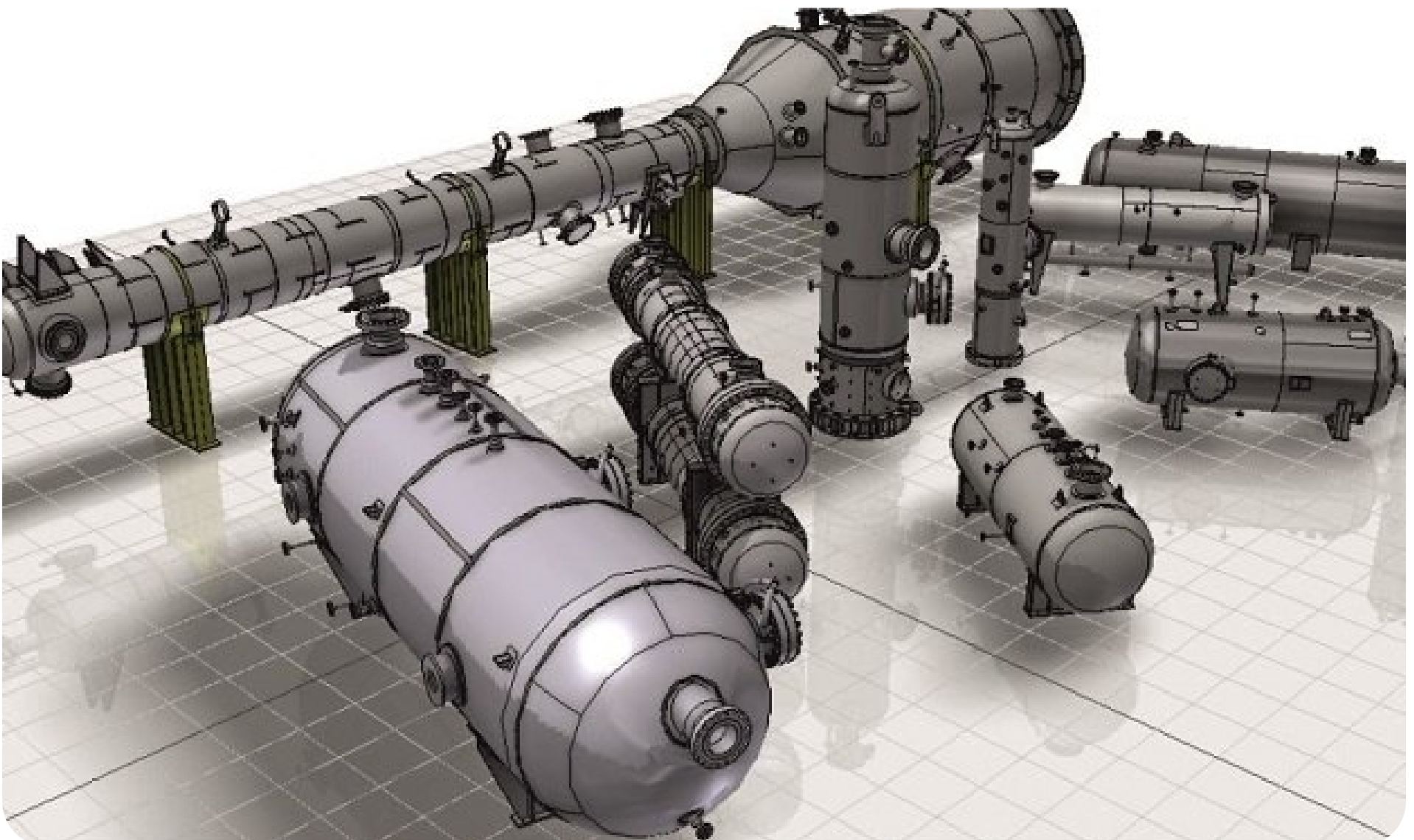
OJT TRAINING · MECHANICAL STATIC ENGINEER

Pressure Vessel Design (Manual Calculation) As Per ASME Section VIII Div.1

For : **Mechanical Engineering**

ASME VIII pressure vessel training: hand-calculate every vessel part.

- 15 trainings
- 65 lessons
- 100% online
- Mentor: Tito Febrianto, ST – Senior Mechanical Static Engineer



ABOUT THIS OJT

Learn straight from real projects with OJT Pressure Vessel Design (Manual Calculation) As Per ASME Section VIII Div.1

In this OJT you will learn how to design a Pressure Vessel as per ASME VIII Div.1 in detail through our recorded videos, and practise manual calculations for every part of the Pressure Vessel using Excel spreadsheets.

At the end of the training you will fully design a Pressure Vessel using data from a real project.

After this training you are expected to be able to design a pressure vessel without helper software, and naturally, when you do use software, you will already master the design concept according to ASME Section VIII Div.1.

CURRICULUM

What you'll learn

15 trainings · 65 lessons

1

Pressure Vessels Introduction 4 lessons

Definition, Application · Standard Reference, and tools · Scope of design · Outline Training OJT

2

Material Selection and Material Properties Data 7 lessons

ASME reference · Required data · Material Properties and Specification · Commonly used Material · Tensile strength and Yield strength · Allowable stress · Dimension tolerances

3

Type of pressure 6 lessons

Design Pressure · Static Pressure · Maximum Allowable Working Pressure (MAWP) · Maximum Allowable Pressure (MAP) · Test Pressure · Others Pressure

4

Important Assumptions in Designing and Calculation 3 lessons

Corrosion Allowances · Joint Efficiency · Tolerance

5

Shell Design and Calculation 5 lessons

References and Equation · Symbol and Definition · Minimum Required Data · Simple Study Case · Actual Study Case

6

Head Design Calculation 4 lessons

References and Equation · Types of head · Symbol and Definition · Study Case

7 Nozzle Design Calculation 7 lessons

References and Equation · Type of nozzles · Symbol and Definition · Nozzle for access opening · Study Case for Access Opening Nozzles · Nozzle for others · Study Case for Other Nozzles

8 Nozzle Reinforcements Design and Calculation 6 lessons

References and Equation · Limit of Reinforcement · Reinforcement Area · Symbol and Definition · Simple Study Case · Actual Study Case

9 Flanges Design and Selection 6 lessons

References · Type of flanges · Pressure-Temperature Rating · Study Case Rating Selection · Study Case Dimension Selection · Bolt and Nut Selection

10 Heat Treatment Evaluation 3 lessons

References and Equation · Heat Treatment After Forming Evaluation · Post Weld Heat Treatment Evaluation

11 Impact Test Evaluation 5 lessons

References · Impact Test Requirements · Material Classification, Governing Thickness, and MDMT Calculation · MDMT Reduction · Study Case

12 Weld Size Evaluation 4 lessons

Shell and Head · Nozzle to Shell or Head (without pad) · Nozzle to Shell or Head (with pad) · Nozzle to Flanges

13 MAWP Evaluation and Test Pressure Selection 3 lessons

Summary MAWP · Lowest Stress Ratio Calculation · Test Pressure Selection

14

Summary Design and Calculation 1 lessons

FP

Final Project 1 lessons

HOW IT WORKS

From first lesson to certificate

- 1 Download all materials from the link we sent you
- 2 Watch the video carefully
- 3 Complete the calculation exercises for each component using Excel
- 4 Complete the quizzes for each chapter that we provide
- 5 Complete the final assignment of designing a pressure vessel from the real project data we provide
- 6 Consult on the final assignment with your mentor via WhatsApp Group/Email.
- 7 For final assignments that have been approved, a certificate will be issued

CHOOSE A PACKAGE

SINGLE OJT

OJT Pressure Vessel Design (Manual Calculation) As Per ASME Section VIII Div.1

Skills required for a role in Pressure Vessel Design (Manual Calculation) As Per ASME Section VIII Div.1

65 video lessons · real-project case studies · mentor discussion · 100% online

Rp 1.750.000

COMPLETE PACKAGE **Best value**

OJT Mechanical Static Engineer Complete Package

The right choice if your goal is to work as Mechanical Static Engineer: no skill left behind, one single payment.

2 OJT Trainings at once: every skill you need to work as Mechanical Static Engineer.

Pressure Vessel Design (Manual Calculation) As Per ASME Section VIII Div.1 (this OJT)	Rp 1.750.000
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Storage Tank Design (Manual Calculation) As Per API 650	Rp 1.750.000
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~~Rp 3.500.000~~ **Rp 3.000.000** Save Rp 500.000 (14%)



Sign up & full details at www.terapan.id

Questions? Chat on WhatsApp:

0851-3920-0080