

OJT TRAINING · CIVIL ENGINEER

Equipment Foundation Design For Oil Gas/Industrial Plant (AFES)

For : **Civil Engineering**

AFES training: design foundations for towers, heat exchangers and tanks on real projects.

- 4 trainings
- 37 lessons
- 100% online
- Mentor: Heru Prasadja, ST – Senior Civil Engineer



ABOUT THIS OJT

Learn straight from real projects with OJT Equipment Foundation Design For Oil Gas/Industrial Plant (AFES)

One of the tasks of a Civil Engineer in an oil refinery construction project is to design foundations for all process equipment in the oil refinery, such as Distillation Towers, Heat Exchangers, Storage Tanks, etc.

This OJT aims to train participants to be able to design the three most common types of equipment foundations found in oil refineries, namely Vertical Vessel Foundations, Horizontal Vessel Foundations, and Storage Tank Designs, in accordance with the design standards and specifications applicable in oil and gas projects.

During the design process, participants will use software commonly used in oil and gas projects, namely AFES.

CURRICULUM

What you'll learn

4 trainings · 37 lessons

1

Foundation Theory 10 lessons

Stability Check · Overturning · Sliding · Upending · Soil bearing · Strength Check · One Way Shear · Two Way Shear · Pier Reinforcement Bar · Slab Reinforcement Bar

2

Equipment Foundation Computer Modelling (AFES) 18 lessons

Define Project · Input Parameter · Allowable Stress And Unit Weight Of Material · Concrete Cover · Safety Factor · Soil Bearing Capacity · Single Pile Capacity · Input Node & Dimension · Input Reinforcement Bar · Define Loading · Dead Load · Equipment Load · Wind Load · Seismic Load · Define Unfactored Load Combination · Define Factored Load Combination · Setting Anchor · Pile Arrangement

3

Analysis Result 6 lessons

Foundation & Pile Arrangement Illustration · Pile Arrangement · Safety Factor Of Pile · Check Of Pile Capacity · Shear Strength Check · Reinforcement Design

FP

Final Project 3 lessons

Foundation Design for HP Amonia Scruber 124-D (Vertical Vessel) · Foundation Design for Production Separator 31-MDB-101 (Horizontal Vessel) · Foundation Design for Methanol Distillation Column 6160C1

HOW IT WORKS

From first lesson to certificate

- 1 Download all videos and materials from the links provided.
- 2 Watch all tutorial videos and practice again.
- 3 Complete the final assignment.
- 4 Submit the assignment file for feedback.
- 5 Make corrections if there is feedback for improvement.
- 6 If the modeling assignment is correct, submit it in the form of a Calculation Report in the format provided.
- 7 The certificate will be issued.

CHOOSE A PACKAGE

SINGLE OJT

OJT Equipment Foundation Design For Oil Gas/Industrial Plant (AFES)

Skills required for a role in Equipment Foundation Design For Oil Gas/Industrial Plant (AFES)

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

Rp 1.750.000

COMPLETE PACKAGE **Best value**

OJT Civil Engineer Complete Package

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

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

Steel Structure Design for Oil Gas Plant (STAAD PRO)	Rp 1.750.000
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Equipment Foundation Design For Oil Gas/Industrial Plant (AFES) (this OJT)	Rp 1.750.000
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~~Rp 3.500.000~~ **Rp 3.000.000** Save Rp 500.000 (14%)



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Questions? Chat on WhatsApp:

0851-3920-0080