

An LDI Training Course

Onshore Pipeline Engineering

by
Ir. In Jumanda Kasdadi, MT

COURSE OVERVIEW

Pelatihan ini dimaksudkan untuk memberikan pengetahuan dan pemahaman mengenai *pipeline engineering*, khususnya untuk *onshore*.

Pada tahap awal akan dibahas tahap-tahap selama proses *engineering* untuk *pipeline* pada *onshore* dari penentuan *route* sampai penyusunan semua *drawing* dan dokumen *engineering* untuk *onshore pipeline*.

Setelah itu detail-detail masing tahap onshore pipeline engineering akan dibahas dalam pelatihan ini. Selain itu, pada pelatihan ini juga akan dibahas aspek keselamatan kerja (*safety aspect*) dalam proses *engineering* seperti HAZID, HAZOPS, QRA dan FTA.

Secara umum setelah mengikuti pelatihan ini, peserta diharapkan mendapatkan pengetahuan dan pemahaman mengenai *onshore pipeline engineering* secara menyeluruh.

COURSE CONTENTS

- **Introduction to Course**
- **Steps, Drawings and Diagrams of Onshore Pipeline Engineering** (pipeline route determination, pipeline design & sizing, process flow diagram, alignment sheet, isometric drawing, etc)
- **Pipeline Design and Sizing** (determination for NPS, pipe schedule, piping class, location class, design factor, etc)
- **Methods of Pipeline Construction and Installation** (pipe preparation, open cut method, HDD / horizontal dimensional drilling, pipe rack, etc)
- **Pipeline Components, Fittings and Accessories** (flange connections, elbow, bend, tee connection, weldolet, equivalent pipe length, etc)
- **Basic Stress Analysis** (radial stress, axial stress, hoop stress, strain, pipe loading, stress categories, etc)

- **Pipeline Expansion Loop & Pipe Support** (thermal expansion of piping material, expansion loop calculation, rod pipe supports, etc)
- **Safety Aspect in Onshore Pipeline Engineering** (HAZID, HAZOPS, QRA, FTA, etc)
- **Corrosion Control Methodologies** (pipe selection, isolation, modification of the environment, cathodic protection, etc.
- **Discussion, Case Study, and Film**

WHO SHOULD ATTEND:

This training is appropriate for technical and for non-technical engineers who want to identify activities onshore in the exploitation of oil and gas, from construction and installation of pipelines, onshore drilling and production facilities to maintenance of onshore pipelines.

INSTRUCTOR:

Ir. In Jumanda K, MT is an experienced instructor and he has been conducting training for oil and gas companies since 1997.

He has BS and MS in chemical engineering degrees from the Institute Technology Bandung.

Companies that have received Mr. Kasdadi's in-house training include Chevron, Pertamina Hulu Energi–ONWJ, ConocoPhillips, Total, Medco, Petrochina, Pertamina, Star Energy, Freeport, and many others.

Ir. In Jumanda K, MT was involved in several projects of Front-End Engineering Design (FEED), Risk-Based Inspection (RBI), HAZID, HAZOPS, QRA, FTA, etc; for national and international companies.

IJK has also taken courses for 9 topics in The Oil & Gas fields at PETEX (Petroleum Extension), University of Texas at Austin, in Houston, Texas, USA (2018).

For more information please contact

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