

A Three Days LDI Training Course

Pipeline Technology

by
Rachmat Sudjana, ST

Introduction

Pipeline is the most common facility to deliver the fluid (oil and gas) from the wells located in the remote area such as deep sea, desert, forest, swampy areas etc. to the end user of the products in the cities, industries or other populated area for their uses.

There are different pipe sizes, pipe specifications, pipe wall thicknesses suitable to carry fluid from the Wellhead (flowlines) to the Gathering Stations, continued to Processing Plants (Gathering Line/ Trunk line).

The Pipeline is laid between Plants to deliver the fluid to the Gas user or to the Oil terminals as well as to Oil Refinery.

The Aims

The Participant will get the benefit of an in-depth knowledge of Pipeline Technology, and it will depend on the fluid being transported by the Pipeline.

The participant will understand the technical background to the design formulas, and their application to the pipeline technology.

Couse Contents

1. Introduction

- History of Pipeline Technology
- ANSI/ASME Codes and other Standards
- API Standards and Recommended Practice

2. Materials Selection

- API 5L Specifications
- ASTM Specifications for materials being used in the pipelines
- Practical Aspects of Metallurgical Properties
- Chemistry and Material Test Reports

- Linepipe, fittings, and closures Manufacturing
- Mechanical Properties: Strength and Toughness
- Material selection technique

3. Route Selection

- Soil survey
- Soil Investigation
- Number of buildings along ROW
- Class location Determination
- Artifacts area
- Prohibited or protected area
- Water table during wet season
- River Crossing
- Road Crossing
- Railroad Crossing
- Foreign Pipeline Crossing
- High Voltage Electric Lines
- Rail Road along or parallel with ROW

4. Pipeline Construction

- Staking
- Grading, levelling, cut and fill
- Stringing
- Welding
- Field Coating
- Inspection
- Lowering
- Hydrotesting

5. Pipeline Commissioning

- Dewatering
- Drying
- Nitrogen Filling
- Gas in/Fluid in

Who Should Attend

Pipeline Engineers, Piping Engineers, Field Engineers, and Plant Engineers. Pipeline Inspectors, Piping Inspectors, Coating Inspectors. Pipeline Operations team and maintenance staff.

Your Course Leader

Rachmat Sudjana, ST

Education: University of Indonusa, Industrial Engineering AKAMIGAS, Mechanical Engineering

Qualification: Instructor for Oil and Gas Industries and Pulp & Paper Mills

Other Qualifications: Lecturer and Mentor for Graduate Engineering Trainee –
Engineering Manager - Senior Staff Pipeline/Facility Engineer –
Pipeline Material Selection Specialist

He was a retired Oil & Gas Industry practitioner, who is willing to share his knowledge and experience to the next engineer's generation who need them.

He has a lot of experiences in the Oil & Gas Industries domestic and abroad in the World Class Oil Companies, such as working in the oil field in the north edge of Sahara Desert, Africa next the south shore line of the Mediterranean Sea. As soon as he retired, he had a particular assignment as a Company Engineer in Foster Wheeler, Reading, next to London, UK.

He completed the assignment and get a lot more experience after the completion of the project. A long with his engineering tasks, he was also mentored the engineer's new hired in the company to facilitate them for their future to hold more responsibility. He is willing to improve the knowledge by sharing them to others. He also presented some of technical papers in the national and international forums.

COURSE DELIVERY

- This offline (face to face) course is conducted in Bahasa Indonesia
- Training hours are from 08:00 to 16:00 WIB
- Participants will receive course materials
- Participants will receive a certificate after completing the training

TRAINING CONFIRMATION

LDI Training will provide a Confirmation Letter after we receive registration according to the required quota.

For course registration and more information please email to

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