LDI TRAINING
"Leading Edge Courses for Professionals" ™

An LDI Training Course

INLINE INSPECTION (ILI), APPLICATION and CHALLENGE

by
Rachmat Sudjana, ST

Introduction

In line with Indonesian Government target to achieve 1MBOPD of oil production in 2030 and beyond; Facility and pipeline readiness become more important. Inline Inspection (ILI) to support this readiness using state-of-the art inspection methods.

The Aims

This 3-day seminar on Inline Inspection (ILI) has the following Objectives:

- Understand the principles and benefits of Inline Inspection (ILI)
- Learn groundbreaking technology applicable in the current modern era
- Understand MTM, SCT, NCM including comparison analysis of each inspection methods,
- Develop skills in the inspection of un-pigged pipeline and dead leg piping, as well as in-accessible or difficult to access

Course Contents

Day 1: Introduction to ILI and Pipeline Integrity

1. Introduction to ILI and its importance in pipeline integrity management
2. Overview of pipeline integrity threats (corrosion, cracking, mechanical damage)
3. ILI technologies (MFL, UT, EMAT, etc.) and their applications
4. Touchless ILI methods:
   - Overview of touchless inspection technologies (e.g., MTM, SCT, NCM)
   - Benefits and limitations of touchless ILI
   - Case studies: Successful touchless ILI projects
5. ILI tool selection and deployment considerations

Day 2: ILI Data Analysis and Interpretation

1. ILI data analysis and interpretation techniques
2. Understanding ILI reports and data visualization
3. Identifying and characterizing pipeline defects (corrosion, cracking, etc.)
4. Prioritizing repairs and maintenance based on ILI data
5. Hands-on exercise: Analysing ILI data and identifying defects

Day 3: Plant/Processing Facility Inspection and Integrity Management

1. Introduction to plant/processing facility inspection and integrity management
2. Inspection techniques for plant/processing facilities (visual, NDT, etc.)
3. Touchless inspection methods for plant/processing facilities:
   - Overview of technologies (e.g., MTM, SCT, NCM)
   - Benefits and limitations
   - Case studies: Successful touchless inspection projects in plant/processing facilities
4. Integrity management plans for plant/processing facilities
5. Best practices for implementing ILI and integrity management in pipeline and plant/processing facilities

Who Should Attend

- Pipeline and plant/processing facility Engineers
- Inspection and integrity professionals
- Maintenance and operations personnel
- Other Engineers and technical staff

About Instructor

Rachmat Sudjana, ST

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

Qualifications: - Professional Instructor for Oil and Gas Industry**,** - Technical Subject Matter Expert for Oil Company**,** - Lecturer and Mentor for Graduate Engineering Trainee**,** - Engineering Manager**,** - Senior Staff Pipeline/Facility Engineer**,** - Pipeline Material Selection Specialist

He possesses highly experienced and dedicated Professional Instructor with over 40 years of experience in the Oil & Gas industry, both domestically and internationally. Proven track record as a Technical Subject Matter Expert, Lecturer, and Mentor for graduate engineers. Skilled in pipeline material selection, facility engineering, and engineering management.

He is a seasoned professional with a passion for sharing knowledge, and eager to contribute his expertise to the next generation of engineers and continue to stay updated with industry developments.

He was an Oil & Gas Industry Practitioner in World class Oil Companies (Retired), Company Engineer of Foster Wheeler, Reading, UK, Lecturer , and Mentor of Graduate Engineering Trainee.

He presented technical papers at national and international forums **c**ontributed to the development of oil and gas industry profession

This course is presented by LDITraining.

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