

## An LDI Training Course

# COMMISSIONING and OPERATIONAL READINESS

by  
**Rachmat Sudjana, ST**

---

### ***Introduction***

This course provides Engineers and Company Staff with a comprehensive understanding of how to fill the gap in the Project stage as Commissioning and Operational Readiness seem to be no more than a distant milestone in the project schedule.

This will cover the discussion in the Plant Processing Facility, incoming flowlines and outgoing oil and gas pipelines and other related supporting facilities.

### ***The Aims***

It is important to plan the commissioning and operational readiness activities as early as possible in the project, discussing the various aspects and determining the role in the pre-commissioning and commissioning phases.

This course will provides Engineers with skills and knowledge in conducting commissioning and operational readiness activities:

- To learn about Commissioning & Operational Readiness
- To learn about Hand Over and Assurance Operational Readiness
- To understand the process description/ plant operational principle/ unit
- To understand Standard and code yang related commissioning and operational readiness

### ***Couse Contents***

1. A seven-step Commissioning and Operational Readiness Plan:
  - Operational Readiness Definition
  - Operational Readiness Controls

- Operational Readiness Execution
- Preparation of Pre-commissioning and Commissioning
- Pre-commissioning
- Commissioning
- Plant Operation and Production Ramp-up

## 2. Operational Readiness Planning

- Business Readiness Flowchart
- Project Readiness Checklist
- Key Performance Indicators
- Technology Readiness Level
- Reliability Availability and Maintainability
- Project Terms of Reference

## 3. Operational Readiness Review

- Operational Readiness Plan
- Operational Acceptance Testing
- Project Operational Readiness
- Operational Readiness - System More Ready Than Your Environment
- Preparedness Plan and Instructions for Particular Condition
- Third-Party Auditor Operational Readiness Reviews
- Operational Planning Guidelines to Support Country Preparedness
- Operational Readiness Plan Template
- Business Readiness Plan
- Operational Readiness Checklist
- Operational Readiness

## 4. Documentation

- The facility documentation
- Operating Documentation and Historical Project Information
- Data Management System

## 5. Site Operating Personnel and Site Support

- Transportation and Accommodation
- Maintenance Contracts and IT Operational Support
- Alarm Grouping
- Operating Process and Procedures
- Control Center Operators
- Safety/Environment/Security
- Operational Training
- Regulatory and Other Compliance
- Data Systems
- Equipment Asset Management
- Equipment and Materials
- Special Tools and Equipment

## 6. Commissioning

- Type A/B Deficiency Process
- Trial Period

## 7. Application of Standard and Code for Commissioning and Operational Readiness

- ANSI/ASME B31.3
- ANSI/ASME B31.4
- ANSI/ASME B31.8

### ***Who Should Attend***

Project Engineers, Maintenance Engineers, Operation Engineers, Civil Engineers, Mechanical Engineers, Process Engineer, Electrical and Instrument Engineers, QA/QC Engineers, Construction Engineers, and other personnel who will involved in the Commissioning

### **Your Course Leader**

Rachmat Sudjana, ST

**Education:** University of Indonesia, 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

**For more information please contact to**

**PT. Loka Datamas Indah**  
**LDI Training**

Telephone: +62 21 6326911/0811812857  
E-mail : [Lditrain@indo.net.id](mailto:Lditrain@indo.net.id)  
Web site : [www.Lditraining.com](http://www.Lditraining.com)