

## A 3 Day LDI Training Course

# BASIC INSTRUMENTATION

by  
**Rachmat Sudjana, ST**

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### ***Introduction***

Instrumentation skill is particularly useful to accommodate basic monitoring for a Plant such as monitoring, sensing, recording, and controlling of each piece of equipment. It is also acts a basis to move from manual control to automation system such as SCADA and other systems.

A thorough comprehension of understanding of the basic knowledge principles is often required for you to effectively carry out your day to day business in running the Plant. This short course will provide you with the basic information required to perform these tasks.

### ***The Aims***

Upon completion of this course you will be able to identify the instrumentation system in your Plant, operate them perfectly as designed by your process engineering team.

### ***Couse Contents***

➤ **Basic Instrumentation**

Classify instruments used in the instrumentation industry

Explain the basic terms related to instrumentation and control

Scope of Instrumentation in industries

Significance of Instrumentation & control.

Evolution of Instrumentation

➤ **Basic electricity**

Explain the basic terms related to electrical engineering

Classify electrical measuring instruments

➤ **Magnetism & electromagnetism**

Explain the different laws related to electricity and magnetism

Describe the working of NO and NC types of relays

## **Who Should Attend**

Trainees, Technicians, Mechanical Engineers, Process Engineer, Operation Engineers, Field Supervisors, Production Supervisor, Plant Supervisor, Support Supervisors and other personnel who will be involved in the daily operations of oil and gas fields activities

## **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. Along 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**

**PT. Loka Datamas Indah**  
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