

## An LDI Training Course

# Project Engineering Management

By

**Rachmat Sudjana, ST**

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## Introduction

This course provides Engineers with a comprehensive understanding of how to plan, optimize, and efficiently manage the Projects Engineering (or tasks) to implement products, services, or developments. This includes building the structure, processes, components, and linkages with a team for successful project delivery within scope, schedule, budget, safety, and quality requirements.

## The Aims

In current competitive and often complex work environment, engineers and other professional staff are very likely to be called upon to manage Projects Engineering (or tasks) that implement their stakeholders', or company's products, services, or developments in an optimized, efficient manner.

This course will provides Engineers with skills and knowledge in organizing multi-disciplinary teams to achieve successful project outcomes; enables Engineers to understand the key components of a successful project and to integrate the necessary processes, components, and attributes into execution of their Projects Engineering.

## Couse Contents

### 1. Introduction

- Project Concept
- Project Attribute
- Project Constraints
- Project Stakeholder
- Project Management

- Project Management Knowledge Areas
- Project Management Tools and Techniques
- Project Success

## 2. The Project Management Process Groups

- Process
- Developing a Project Management Methodology
- Project Pre-Initiation and Initiation
- Pre-Initiation Tasks
- Project Planning
- Executing
- Project Monitoring and Controlling
- Project Closing

## 3. Project Object Management

- Project Scope Management
- Planning Object Management
- Collecting Requirements
- Defining Object
- Creating The Work Breakdown Structure
- Controlling Scope

## 4. The Roles and Challenge

- The Role of Project Engineering Management
- The Project Life Cycles
- The Roles of Project Engineering Manager
- Run several coordination meetings involving all stake holders

## 5. Performing Engineering on Projects

- The Systems Method
- Requirements
- Design
- Interaction of the Requirements and Design Processes with Project Management Processes

## Who Should Attend

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

## 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.

**For course registration and more information please email to**

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

**Telephone:** +62 21 6326911

**E-mail :** [Lditrain@indo.net.id](mailto:Lditrain@indo.net.id)

**Web site :** [www.Lditraining.com](http://www.Lditraining.com)