

## A 3 Day LDI Training Course

# Engineering Cost Estimation

by  
**Rachmat Sudjana, ST**

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### Introduction

The purpose of cost estimation is to predict the quantity, cost, and price of the resources required to complete a job within the project scope. It is intended to get the value in order to run the project in acceptable and more or less in the range of market price. Fail to do so, will end with over run or under run of the project budget. Both of them do not expected by each of the project stake holders of their negative impacts.

Estimating costs as accurately as possible

can mean the difference between getting projects up and running quickly vs. encountering delays or cancellations. Cost estimation strategies help project managers forecast the resources necessary for each step of a project and ensure that projects stay on track.

Blending art and science, cost estimating requires a thorough understanding of project scope, past price history, and current market conditions, along with a generous application of human judgment

### The Aims

The Participant will get the benefit in ability to prepare the estimate cost and to evaluate the calculation prepared by others or contractor's engineers

### Course Contents

During the course you will the followings:

1. Types of cost estimates
2. The importance of cost estimate
3. The different components of construction estimates
4. Other types of cost estimates
5. Cost Estimation Method

6. Engineering Cost Estimation Method
7. Advantage of Engineering Cost Estimating
8. Disadvantage of Engineering Cost Estimating
9. Steps to breakdown the estimating process
10. Purpose of Estimation

## Who Should Attend

Project Engineers, Mechanical Engineers, Process Engineer, Electrical and Instrument Engineers, QA/QC Engineers, Cost Estimator, Project Designer, Cost Control Engineer, Project Economic Analyst, Construction Manager, and other discipline Engineers and other company staff who will involved in the routine running of small project

## 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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