

## A 3 Day Course Of

# PLANNING, SCHEDULING AND CONTROL OF OIL & GAS PROJECTS

by

*Pulung Susilo Rahardjo*

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### Course Objective

This training course will provide participants with a through background in the concepts of Planning and Scheduling Engineering and Construction projects.

The course addresses how to identify, monitor, and balance Information crucial for the successful management of projects. It will discuss the development of a baseline performance management plan for the project that will allow the efficient compilation and the timely generation of quantitative performance comparisons. The comparisons highlight significant performance departures ("actual vs. baseline") and allow for preventive and early remedial and corrective actions.

The Practical sessions will provide hands-on experience. Workshops create and track sample project from planning phase till controlling phase (updating).

### What You'll Learn

You will learn how to:

- Build schedules and budgets that transform project constraints into project success
- Construct work breakdown structures (WBS) and network diagrams and estimate task durations
- Calculate Critical Path (CPM) and optimise your project plan
- Allocate costs and chart expected cash flow
- Assign resources effectively and respond to end-date changes
- Perform Earned Value Analysis (EVA) to keep the project on track

### Course Outline

#### Essential Background

1. Overview of the project management life-cycle
2. The triple constraints
3. Planning tools
4. Project requirements; a review

5. The work breakdown structure; a review
6. Challenges in scheduling & control

### **Best Practices for Project Planning**

#### **1. Building the foundation**

- Generating your WBS
- Developing a product-oriented focus
- Identifying the appropriate level of detail

#### **2. Diagramming network relationships**

- Working with network diagrams
- Applying CPM and PERT diagrams
- Defining precedence relationships
- Establishing dependencies
- Determining lead and lag times
- Constructing PDM diagrams

### **Integrating the Schedule and Critical Path**

#### **1. Computing the Critical Path**

- Adding task durations to determine path lengths
- Identifying the critical path
- Recognising near-critical and non-critical paths
- Determining probabilistic critical paths
- Prioritising your management time

#### **2. Creating Gantt charts**

- Building Gantt & milestone charts following industry standards
- Representing the relative durations of tasks graphically

#### **3. Fine-tuning your plan**

- Calculating activity float
- Planning delivery by applying earliest start times
- Optimising the plan using latest start times
- Rescheduling activities within their float tolerance

### **Realistic Resourcing**

#### **1. Schedules that make sense**

- Factoring in productivity
- Allocating resources effectively
- Baselining your plan

#### **2. Responding to delivery-date changes**

- Fast-tracking the project plan
- Crashing the Critical Path
- Leveraging Goldratt's Critical Chain

### **Measuring and Improving Performance**

#### **1. Monitoring your plan**

- Recording actual durations
- Tracking cash flow
- Assessing performance
- Determining and summarising project status

#### **2. Performing EVA**

- Calculating schedule and budget efficiency
- Quantifying cost and schedule variance
- Projecting impact on project outcomes
- Mapping EVA to cost accounting
- Advanced EV forecasting tools
- Reconciling and addressing project issues

### Communicating with Stakeholders

- Incorporating inbound information into outbound reports
- Applying the right level of detail
- Interfacing project information to organisational reporting

### The Exit Strategy

- Steps in completing the project
- Scope verification
- Contract close-out
- Administration closure

## Who Should Attend

The course is targeted at the Oil & Gas industry, Petrochemical, Power plant, Mining & Minerals, Chemical, Construction, EPC Company / Contractor, Government. The profiles of participants include *but* are not limited to

- *Project Manager*
- *Project Engineering*
- *Scheduler*
- *Project Planning Engineer*
- *Disciplines Engineer Leads*
- *Disciplines Engineer*
- *Finance Project Executive / Manager*
- *All executives involved in technical projects cost estimation*

## Why You Should Attend

After this course with several practical cases, the participant will be able to prepare or evaluate project estimates quicker and more accurate. With the knowledge obtained regarding contracts, planning & scheduling and cost control you will be able to execute projects in such way that project will finish in time and within budget

XP Training ensures that our instructor, learning tools and resources will provide course attendants with up-to-date knowledge for direct application in their professional duties. It will also enable them to extrapolate and extend the provided information to related problems in different industrial situations. By requesting preliminary information about the technical background of our participants we make sure that the course is taught at the appropriate level thus maximizing individual benefit. Furthermore we encourage a comprehensive and fully explorative question and answer teaching style.

## 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 complete materials course.
- Participants will receive a certificate

## Your Instructor

### Ir. Pulung Susilo Rahardjo

He received Bachelor degree in Aeronautical Engineering from Mechanical Engineering Department, Industrial Engineering Faculty, Bandung Institute of Technology (ITB) on 1981. He has a professional and practise experiences as Project Management Senior Staff more than 30 years in National & Multinational Company special Oil & Gas Onshore & Offshore Industry. He also attended at many project management seminar & course program at Indonesian & overseas institution. He retired from PT.Medco E&P Indonesia on year 2011 and focused in Project Management Advisor.

## TRAINING CONFIRMATION

LDI Training will provide a Confirmation Letter after we receive registration according to the required quota.

**For more information please contact**

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