

E- 009

OBJECTIVES

To provide required knowledge to use past and existing data in order to **better estimate new projects** and to **better control costs**.

On completion of the course, the participants will have acquired a logical **work method** allowing them to:

- better define project technical content
- be able to use previous projects results in order to better identify technical contents and unit prices
- better control the project costs.

COURSE CONTENT

COST ESTIMATING

3.5 days

General

Concepts and principles.
Project cycles phases and cost estimating methods.

Cost estimating methods

Cost estimating accuracy.
Various estimating methods: plant exponent, module factor, semi-detailed, detailed method.
Problem areas in cost estimating: location factors, currency fluctuations.
Example of estimating data sheets.
Quantifying allowances, contingencies and risks.
Estimating a revamping project.

Case studies

Cost estimate of a complete onshore petrochemical plant including itemised equipment, bulk materials, construction works, site supervision, start-up and engineering services.
Cost estimate of a piping modification in an existing plant.
Demonstration of a cost estimate software package.

COST CONTROL

1.5 days

General

Effective project control.
Integrated project cost and schedule control.
Cost control versus financial control.

Project cost control

Time phased budget: to measure and monitor cost performance on the «project».
Progress reports: to detect which budget have been met and which have not.
Change authorizations: to allow budget increase/decrease.
Earned value: to measure project cost performance.
Sampling method: to help to calculate the estimate at completion.
Historical data: to collect technical/cost data on past «projects»

Case studies

Exercises using earned value techniques.
Cost overrun analysis of a recent past project.

▲ Who should attend?

Personnel in charge of any aspect of project management (managers, project engineers, cost estimators, cost controllers & schedule engineers, contract engineers, ...). Anyone requiring a clear insight into cost engineering, what it can do, how it is done, and the role of the cost engineer in project management.

▲ Duration

5 days

▲ Dates & Location

December 01 to 05, 2008
Rueil-Malmaison (Paris)

▲ Tuition Fees

€ **2,080**

▲ Course Coordinator

Serge LECLER

Ref. **PGP / EMCOU-E**

The course includes sizeable practical works and case studies based on industrial experience.