

**Training Title**

**CONSTRUCTION MANAGEMENT**

**Training Duration**

**5 days**

**Training Venue and Dates**

|              |                         |   |                     |        |           |
|--------------|-------------------------|---|---------------------|--------|-----------|
| REF<br>CE018 | Construction Management | 5 | 19-23 February 2024 | \$6000 | Singapore |
|--------------|-------------------------|---|---------------------|--------|-----------|

Training will be held at any 5-star hotel. The exact venue will be intimated once finalized.

**Training Fees**

\$6,000 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

**Training Certificate**

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

**TRAINING OVERVIEW**

**TRAINING DESCRIPTION**

The aim of this course is to introduce the required skill for civil management engineering projects for all its life cycle. The project quality control and quality assurance will be discussed in the phase of design and execution.

The principle of total quality management for civil engineering projects will be illustrated as an international tool to control the projects. The tools to control the resources and the ways of executing the reinforced concrete structure will be discussed in a practical way to produce a successful project.

The total quality management system for controlling the materials, execution and control will be discussed.

Managing the engineering projects with contractors and consultant office based on total quality management to achieve high standard to the project will be discussed theoretical and practical by cases studies.

This course will illustrate all types of techniques that can be used to control the project cost. Overall project accounting will be discussed taking into consideration its relation to the budget. The cost estimate for the projects will be presented with different levels to facilitate to the attendees calculates the cost estimate with different level of accuracy.

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The engineering projects planning and schedule in scope of mitigate the risk assessment of the projects will be discussed.

Describe the required technique to control resources allocation for different projects to minimize cost with maximum profit. Moreover, tools required to control the project cost in scope of authorized budget. Over all projects cash flow and arranging the cost for each project according to different budgets will be discussed.

The tricks in the contract and how we can use our skill to prepare tender package match with our requirement. Define the type of contract according to our project types.

### TRAINING OBJECTIVES

The course uses both conventional and non-traditional techniques, utilizes hands-on case studies and group discussions and provides thorough coverage of concepts, techniques, and relevant case studies.

#### The Benefits

- Better understanding of construction management
- Improved ability of delegates to plan, schedule and cost control
- Mastering inter-personal skills needed to effectively manage teams on site.
- Improved ability to develop appropriate performance measures
- A risk assessment methodology for the construction activity

### WHO SHOULD ATTEND?

Any civil engineer with interest in learning about the modern methodology for controlling the construction quality and managing the construction execution on site with an advanced technique. It is foreseen that individuals from the following backgrounds may attend:

- Construction engineers
- Maintenance Engineers
- Design structural engineers
- Supervision engineer
- Planners

### TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivate everybody to find the right

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answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of the multiple-choice type will be made available on a daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

## COURSE OUTLINE

### Day 1

- What is Construction Project Management?
- Characteristics of construction project objectives.
- Factors affecting project success.
- Construction Project Management process.
- Project life cycle
- How to start the construction phase?
- Prepare and control scope on site.

### Day 2

- Human resource management
- Types of Organization charts
- Staff performance monitoring
- Selection of the team members
- Skills for the construction project manager
- Communication management
- Communication methods

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### Day 3

- Project Time Management.
- Activity Definition.
- Tools and Techniques for activity sequencing.
- Rules for estimating activity duration.
- Schedule development.
- CPM method
- Outputs from Schedule development.
- How to develop a complete plan.

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- PERT Duration Calculation.
- Types of resources
- Select team member in the project.
- Project management skills
- Resources Planning
- Prepare cash flow.
- Cost Control
- Cost and schedule controllable
- Use cost to follow up the project.

#### Day 4

- Total quality management
- Quality assurance
- Quality control principal
- Quality plan
- Procurement control management
- Types of contracts (EPC, Cost plus, etc.)
- FIDIC contracts
- Evaluate tenders.
- Bid price component.

#### Day 5

- Risk assessment for civil engineering projects
- Types of risk assessment tools
- Risk assessment monitoring
- Risk assessment WORKSHOP for case study.

#### NOTE:

Pre & Post Tests will be conducted.

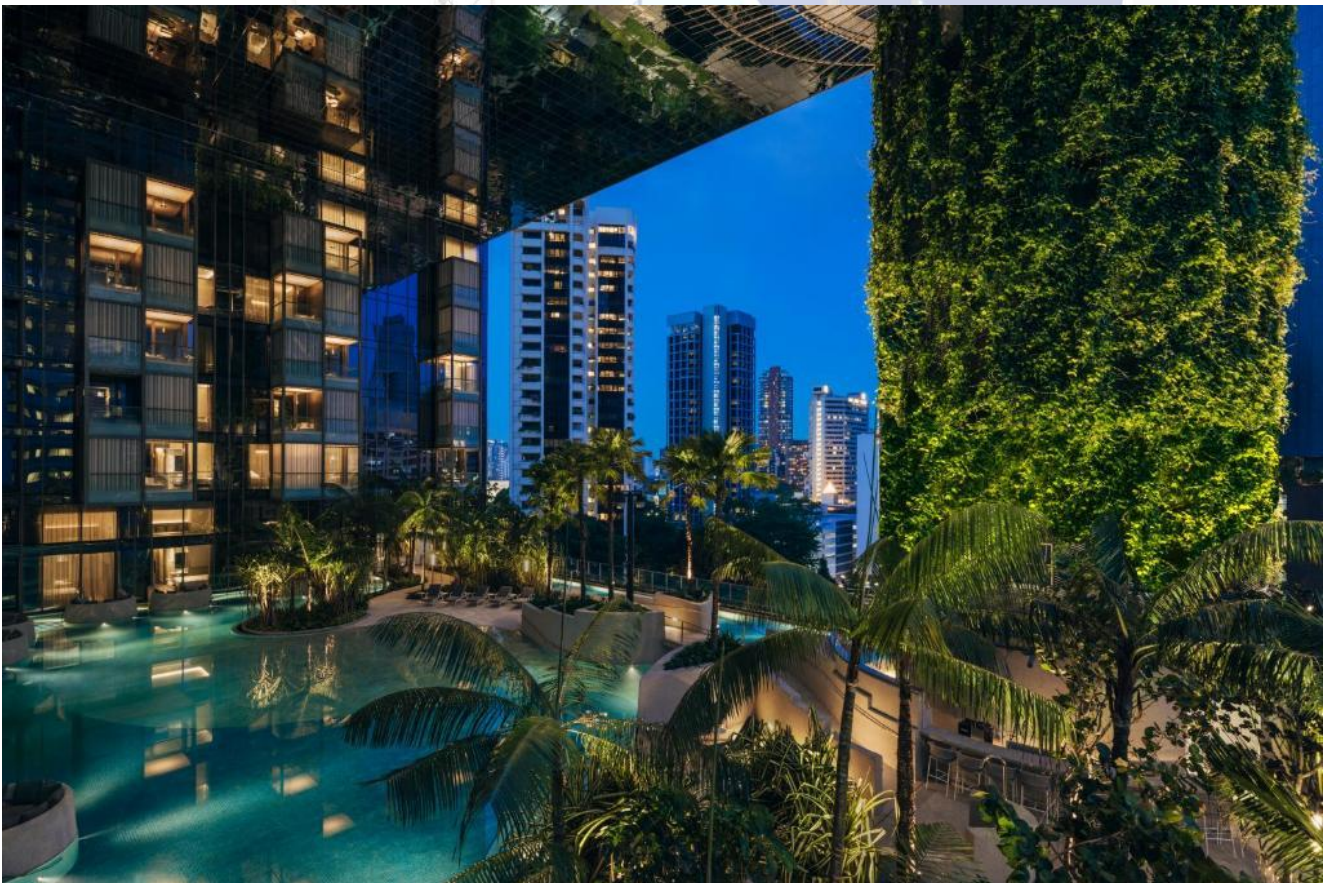
Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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