

**TRAINING TITLE**

**CONSTRUCTION MANAGEMENT**

**TRAINING DURATION**

5 days

**TRAINING VENUE AND DATES**

<b>REF</b> CE005	<b>CONSTRUCTION</b> <b>MANAGEMENT</b>	<b>5 days</b>	<b>07-11 Oct 2024</b>	<b>\$6,500</b>	<b>Amsterdam,</b> <b>Netherlands</b>
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In any of the 4 or 5-star hotels. The exact venue will be informed of soon.

**TRAINING FEE:**

- \$6,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch.

**TRAINING CERTIFICATE**

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

**TRAINING INTRODUCTION/DESCRIPTION**

The aim of this course is to introduce the required skill for managing the engineering projects for all its life cycle and focus on construction phase. The project quality control and quality assurance will be discussed in the phase of execution and the impact of design to construction. The characteristic of oil and gas projects.

The principal of total quality management oil and gas 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 ways to produce successful project.

The total quality management system for control the materials, execution and control the hardened concrete structure to measure its quality assessment will be illustrated. This quality control will be based on ACI and BS standard.

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 can be used to control the project cost. More over all project accounting will be discussed taking into consideration its relation to the budget. The cost estimate for the projects will be presented with different level to facilitate to the attendees calculates the cost estimate with different level of accuracy.

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 arrange the cost for each project according to different budget will be discussed.

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

**TRAINING OBJECTIVES**

on time, within budget, and to the required quality standards. Key objectives of construction management include:

- **Project Planning:** Develop comprehensive plans outlining project scope, objectives, schedules, and budgets.
- **Resource Management:** Allocate resources such as labor, materials, and equipment effectively to optimize productivity and minimize waste.
- **Cost Control:** Monitor and control project expenses to ensure adherence to budget constraints while maximizing value.
- **Quality Assurance:** Implement quality control measures to uphold construction standards and meet client expectations.
- **Risk Management:** Identify potential risks and develop strategies to mitigate them, ensuring project continuity and minimizing disruptions.
- **Communication:** Foster clear and effective communication among project stakeholders, including clients, contractors, suppliers, and regulatory authorities.
- **Safety Compliance:** Prioritize the safety of workers and the public by enforcing compliance with safety regulations and implementing best practices.
- **Schedule Adherence:** Monitor project timelines closely and implement strategies to keep the project on schedule, making adjustments as necessary to mitigate delays.
- **Client Satisfaction:** Ensure client satisfaction by delivering the project on time, within budget, and to the specified quality standards, while addressing any concerns or changes promptly.

**WHO SHOULD ATTEND?**

- **Project Managers**
- **Construction Managers**
- **Engineers (Civil, Structural, Mechanical, Electrical)**
- **Architects**
- **Site Supervisors**
- **Foremen**
- **Estimators**
- **Procurement Managers**
- **Safety Officers**
- **Quality Control Inspectors**
- **Contract Administrators**
- **Subcontractors**
- **Consultants**
- **Clients**

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**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 find the right 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 multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

All presentations are made in excellent colourful power point. 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:**

**Introduction to construction management**

- What is Project Management?  
Characteristics of oil and gas project interface with engineering phase
- Characteristics of project objectives.
- Factors affecting project success.
- Project Management process.
- Advanced Project life cycle
- appraise, select define and execute
- whole building commissioning system

**Day2:**

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- Total Quality management
- Quality assurance and quality control onsite  
How to achieve QA on site  
what is the benefit for Quality management
- Methods for selecting the sample
- QC for concrete and steel

**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.
- PERT Duration Calculation.
- LEAN Construction technique
- Last planner
- WORKSHOP For lean Construction Technique

**Day 4:**

- Cost estimate techniques
- AACE cost estimate and cost control
- Cost control and monitoring
- Cost analysis
- Budgeting preparation
- Cashflow preparation
- human resource management  
Types of resources
- Select team member in the project
- Manage persons on site
- Construction management skills
- Resources Planning
- cost and schedule controllable
- Use cost to follow up the project.
- Types of contracts
- FIDIC contracts
- Evaluate tenders
- Bid price component

**Day 5:**

- Communication management
- Successful meeting tips
- Risk assessment for civil engineering projects
- Types of risk assessment tools
- Risk assessment methods



- WORKSHOP For Risk assessment

**NOTE:**

- **Pre & Post Tests will be conducted.**
- **Post tests will be with minimum pass marks.**
- **80% of attendance is a must to receive Certificate.**
- **Case Studies, Individual & Group Exercises, Project works (making into groups), Role plays, Group Discussions, Last Day Review & Assessments will be carried out as applicable.**



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