QUEST
Professional Center

PROFESSIONAL TRAINING COURSE

Course No. 1584

Construction Project Management Training Course

PROJECT ENGINEERING & CONSTRUCTION
INDUSTRIAL ENGINEERING, MAINTENANCE & OPERATIONS

DURATION
5 Days

DELIVERY
Classroom

LOCATION
Cairo, Egypt

DATES
28 Dec 2026 – 1 Jan 2027

Scheduled Event Details

CITY	Cairo, Egypt
DATE	28 Dec 2026 – 1 Jan 2027
DELIVERY TYPE	Classroom
COURSE FEE	€3,800

Course Overview

The Construction Project Management Training Course provides a comprehensive professional program designed to develop the managerial, technical, commercial, and leadership capabilities required to plan, coordinate, execute, monitor, and control construction projects effectively. Successful construction project management requires more than technical knowledge; it depends on the ability to integrate scope, schedule, cost, resources, procurement, contracts, quality, safety, risks, stakeholders, and site activities into a controlled delivery framework.

The course examines the complete construction project lifecycle, from project initiation, feasibility, scope definition, and planning through design coordination, procurement, mobilization, construction execution, progress monitoring, commissioning, handover, and closeout. Participants develop a practical understanding of how decisions made during early project stages influence construction productivity, cost performance, schedule reliability, quality, safety, and overall project outcomes.

A major focus of the Construction Project Management Training Course is the integration of project management principles with real construction site requirements. Participants explore work breakdown structures, construction planning, scheduling, resource management, cost control, procurement, contractor management, subcontractor coordination, quality assurance, health and safety, risk management, change control, claims, and project reporting. The program emphasizes effective coordination between project owners, consultants, contractors, suppliers, site teams, engineering disciplines, and commercial functions.

The course also addresses construction productivity, progress measurement, project performance indicators, delay analysis, corrective action, communication, stakeholder management, and project closeout. Through practical exercises, construction case studies, project scenarios, and integrated workshops, participants develop a structured approach to managing construction projects from initiation through completion. The program is particularly relevant to infrastructure, buildings, civil

works, industrial facilities, oil and gas, petrochemical, energy, utilities, and major capital construction projects.

Objectives

- Analyze construction project objectives, scope, contractual requirements, deliverables, constraints, and execution conditions to establish an effective management framework during the course.
- Develop integrated construction project plans covering scope, schedule, cost, resources, procurement, quality, safety, risk, and stakeholder requirements.
- Evaluate work breakdown structures, construction activities, responsibilities, interfaces, and deliverables to establish effective project control mechanisms.
- Apply construction planning and scheduling techniques to sequence activities, identify critical work, monitor progress, and support timely project completion.
- Assess labor, equipment, materials, subcontractors, and other resource requirements to improve construction productivity and execution efficiency.
- Analyze project budgets, commitments, actual expenditures, progress measurements, and cost variances to strengthen financial control.
- Implement structured approaches for identifying, assessing, and responding to technical, commercial, contractual, safety, and construction risks.
- Evaluate the impact of changes, variations, claims, delays, and scope developments on construction project cost, schedule, resources, and contractual obligations.
- Strengthen coordination between owners, consultants, contractors, subcontractors, suppliers, engineering teams, and site management.
- Apply quality assurance, quality control, safety, productivity, and performance monitoring practices throughout construction execution.
- Develop effective project reporting, progress monitoring, forecasting, and corrective action processes to support timely management decisions.
- Design an integrated construction project improvement plan that addresses project performance, risks, resources, commercial requirements, and delivery objectives.

Who Should Attend

The Construction Project Management Training Course is designed for project managers, construction project managers, project directors, construction managers, site managers, project engineers, construction engineers, civil engineers, engineering managers, planning engineers, project controls specialists, cost engineers, contract managers, commercial managers, and professionals responsible for managing construction project execution.

The program is also highly relevant to procurement professionals, quantity surveyors, contract and claims specialists, risk professionals, quality managers, quality control engineers, health and safety professionals, construction supervisors, site engineers, discipline engineers, subcontractor managers, project coordinators, and professionals responsible for contractor and supplier performance.

The course is suitable for executives, senior managers, and decision makers within government entities, ministries, public sector organizations, project owners, engineering consultants, construction contractors, EPC organizations, infrastructure developers, oil and gas companies, petrochemical facilities, energy and utilities organizations, industrial companies, real estate organizations, manufacturing companies, and large corporations managing complex construction and capital investment programs.

Learning Outcomes

- Explain the complete construction project lifecycle and the management requirements associated with planning, execution, monitoring, control, and closeout.
- Develop an integrated construction project management framework covering scope, schedule, cost, resources, procurement, quality, safety, risks, and stakeholders.
- Establish work breakdown structures, responsibilities, deliverables, interfaces, and construction work packages.
- Develop and analyze construction schedules, identify critical activities, and evaluate the impact of delays on project completion.
- Plan and coordinate labor, materials, equipment, subcontractors, and site resources to improve construction productivity.
- Monitor project costs, commitments, actual expenditure, progress, and variances and determine appropriate corrective actions.

- Apply structured construction risk management techniques to identify, assess, prioritize, and respond to project risks.
- Evaluate the impact of changes, variations, claims, delays, and contractual issues on construction project performance.
- Improve coordination among project owners, consultants, contractors, subcontractors, suppliers, engineering teams, and site personnel.
- Apply quality assurance, quality control, health and safety, productivity, and performance management practices on construction projects.
- Prepare effective progress reports, performance dashboards, forecasts, and management information for construction projects.
- Develop a practical construction project improvement and delivery plan aligned with organizational requirements and project objectives.

Course Outline

DAY 01

Construction Project Management Fundamentals and Project Planning

- Principles, objectives, and responsibilities of construction project management
- Construction project lifecycle and major project delivery stages
- Project initiation, feasibility, scope definition, and project requirements
- Roles and responsibilities of owners, consultants, contractors, subcontractors, and project teams
- Work breakdown structures and construction work packages
- Project organization, responsibility allocation, and communication structures
- Construction project interfaces and coordination requirements
- Project planning principles, execution strategies, and site requirements
- Key construction project success factors and common causes of project failure
- Stakeholder identification, communication, and coordination

PRACTICAL APPLICATION

Develop an initial construction project management framework identifying scope, responsibilities, interfaces, deliverables, and key execution requirements

DAY 02

Construction Planning, Scheduling, Resources, and Site Coordination

- Construction planning principles and execution methodologies
- Development of construction schedules and activity sequencing
- Critical path analysis, milestones, dependencies, and schedule constraints
- Site mobilization and construction readiness planning
- Labor planning, workforce allocation, and productivity management
- Equipment planning, utilization, and availability
- Materials planning, storage, handling, and availability
- Coordination of engineering, procurement, construction, and site activities
- Contractor and subcontractor schedule coordination
- Progress measurement and construction productivity monitoring

> **PRACTICAL APPLICATION**
>
> Develop a construction execution schedule and resource plan and identify critical activities, site constraints, and coordination requirements

DAY 03

Construction Cost, Quality, Safety, and Performance Control

- Construction project budgets and cost control principles
- Monitoring actual costs, commitments, expenditure, and cost forecasts
- Cost and schedule variance analysis
- Contractor payment management and commercial monitoring
- Quality assurance and quality control requirements during construction
- Inspection, testing, documentation, and quality records
- Health, safety, and environmental considerations in construction management
- Productivity measurement and performance indicators
- Construction progress reporting and management dashboards
- Root cause analysis of cost, quality, productivity, and performance deviations

DAY 03 — CONTINUED

PRACTICAL APPLICATION

Analyze construction project performance data and identify cost, schedule, quality, safety, and productivity issues requiring corrective action

DAY 04

Construction Risk, Contracts, Changes, Claims, and Delay Management

- Identification and classification of construction project risks
- Technical, commercial, contractual, procurement, resource, and site risks
- Risk assessment, prioritization, mitigation, and monitoring
- Contract administration and contractor performance management
- Subcontractor management and contractual coordination
- Change orders, variations, and scope management
- Evaluating the impact of changes on cost, schedule, resources, and project requirements
- Claims management and documentation requirements
- Delay identification, classification, and root cause analysis
- Recovery planning and corrective action for delayed construction projects

PRACTICAL APPLICATION

Analyze a construction project experiencing delays, changes, and contractual issues and develop an integrated risk, recovery, and corrective action plan

DAY 05

Integrated Construction Project Control, Handover, and Delivery Excellence

- Integration of construction planning, scheduling, cost, quality, safety, procurement, and risk management
- Project performance assessment and management review
- Construction productivity and resource optimization

DAY 05 — CONTINUED

- Forecasting project completion, cost, and resource requirements
- Managing commissioning, testing, completion, and readiness for handover
- Project documentation, as-built information, technical records, and handover requirements
- Defect management, punch lists, completion certificates, and closeout activities
- Stakeholder coordination during project completion and handover
- Lessons learned, knowledge capture, and continuous improvement
- Developing construction project delivery excellence strategies

FINAL WORKSHOP

Conduct a comprehensive construction project assessment and develop an integrated improvement plan covering scope, schedule, cost, resources, procurement, quality, safety, risks, contracts, interfaces, productivity, handover, and project closeout

Register or Request More Information

Course page: https://quest-training.com/courses/construction-project-management-training-course
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