

ADVANCED PROJECT & CONSTRUCTION MANAGEMENT

“Enhancing Control, Coordination & Delivery of Complex Construction Projects”

Schedule

Date	Venue	Fees (Face-to-Face)
24 - 26 Feb 2026	Manama, Bahrain	USD 2,495 per delegate
25 - 27 Aug 2026	Doha, Qatar	USD 2,495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Large-scale construction projects demand a higher level of coordination, planning, and risk control than typical project environments. Advanced techniques in project and construction management help organizations deliver capital projects on time, within budget, and according to technical and safety specifications.

This intensive 3-day course provides experienced project professionals with tools, methodologies, and real-world strategies to lead complex construction projects from initiation through execution and closeout. Participants will explore areas such as contractor management, project control systems, schedule optimization, risk mitigation, and site coordination.

Objectives

By the end of this course, participants will be able to:

- Apply advanced principles of construction planning, control, and delivery
- Manage stakeholder expectations, contracts, and multi-contractor interfaces
- Develop integrated construction schedules and cost tracking systems
- Identify and mitigate construction risks proactively
- Ensure quality, safety, and performance during execution

Why Attend

- Strengthen leadership skills specific to engineering and construction projects
- Improve ability to manage large, multi-disciplinary teams and contractors
- Gain insights into proven practices in scheduling, cost control, and documentation
- Enhance construction delivery through risk-based decision-making
- Learn how to avoid costly delays, claims, and rework

Target Audience

This program is designed for:

- Project managers, construction managers, and project engineers
- Site managers and construction supervisors
- Planning, scheduling, and contract professionals
- Civil, mechanical, electrical, and structural engineers
- Owners' representatives and consultants involved in construction delivery

Individual Benefits

Key competencies that will be developed include:

- Construction lifecycle management from planning to closeout
- Interface and stakeholder coordination
- Work breakdown structure (WBS) and schedule development
- Cost control, earned value management, and cash flow analysis
- Construction site supervision and quality assurance

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Greater control over project costs, timelines, and deliverables
- Reduced claims, disputes, and change order impacts
- Enhanced safety and compliance performance
- Improved collaboration among engineering, procurement, and construction teams
- More consistent project outcomes aligned with business objectives

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Deep dive into advanced construction management concepts
- Case Studies - Analysis of complex project scenarios and success factors
- Workshops - Hands-on planning, scheduling, and risk exercises
- Peer Exchange - Sharing of site challenges and industry lessons learned
- Tools - Templates for WBS, schedule tracking, risk registers, and site reports

Course Outline

Detailed 3-Day Course Outline

Training Hours: 07:30 AM – 3:30 PM **Daily Format:** 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Project Setup & Construction Planning

- Module 1: Construction Project Lifecycle and Phasing (07:30 – 09:30) • From design to commissioning: key milestones and interfaces • Governance and approvals in complex projects
- Module 2: Advanced Planning and Work Breakdown Structures (09:45 – 11:15) • WBS and construction sequence planning • Linking design, procurement, and construction plans
- Module 3: Resource Planning and Site Mobilization (11:30 – 01:00) • Contractor readiness, permits, logistics, and site layout
- Module 4: Workshop – Develop a Project Execution Plan (02:00 – 03:30) • Create a construction WBS and mobilization plan

Day 2: Scheduling, Risk & Cost Management

- Module 1: Integrated Scheduling Techniques (07:30 – 09:30) • CPM, bar charts, look-ahead scheduling • Managing interfaces and float in multi-package projects
- Module 2: Earned Value and Cost Control (09:45 – 11:15) • Tracking budgets, commitments, and actuals • Cash flow forecasts and value of work done
- Module 3: Risk Management in Construction (11:30 – 01:00) • Risk registers, qualitative/quantitative analysis, and mitigation plans
- Module 4: Workshop – Construction Risk Scenario (02:00 – 03:30) • Assess and respond to risks in a sample project case

Day 3: Execution, QA/QC & Closeout

- Module 1: Supervision and Site Control (07:30 – 09:30) • Monitoring productivity, safety, and progress • Daily reporting and permit-to-work systems
- Module 2: Quality Assurance and Change Management (09:45 – 11:15) • Inspection test plans (ITPs), RFIs, NCRs, and documentation systems
- Module 3: Project Closeout and Lessons Learned (11:30 – 01:00) • Punch listing, handover documentation, and final cost reconciliation
- Module 4: Certification and Wrap-Up (02:00 – 03:30) • Final Q&A, summary review, and certificate distribution

Certification

Participants will receive a Certificate of Completion in Advanced Project & Construction Management, validating their skills in planning, executing, and closing high-impact construction projects using globally recognized project management practices.

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