Advanced Construction Project Management: Planning to Execution

22 – 26 February 2027
Edinburgh (UK)



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Why This Course

Construction projects operate in complex environments where multiple stakeholders, tight deadlines, and strict budget constraints intersect. Delivering successful projects requires strong planning, precise scheduling, effective cost control, and proactive risk management. Professionals who understand the full lifecycle of construction project management—from initiation to closeout—are better equipped to lead teams, ensure quality, and navigate operational challenges with confidence.

The Construction Project Management - Intensive 1-Week Program provides participants with a solid foundation in essential project management practices tailored specifically to the construction sector. Through hands-on exercises, case studies, and practical tools, participants will gain the skills needed to plan, execute, monitor, and close construction projects effectively. This program bridges industry best practices with real-world application—empowering attendees to deliver projects on time, within budget, and to the highest quality standards.

What You'll Learn and Practice

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

- Develop and implement comprehensive project management plans for construction projects.
- Apply advanced scheduling and cost control techniques to optimize project performance.
- Identify, assess, and mitigate risks throughout the project lifecycle.
- Strengthen communication and collaboration among project teams and stakeholders.
- Implement quality assurance and quality control practices in construction environments.

The Program Flow

Day 1: Project Initiation and Planning

- Introduction to the fundamentals of construction project management
- Exploring project lifecycles and delivery methods
- Developing project charters and detailed scope statements
- Identifying stakeholders and analyzing their roles and expectations



Day 2: Scheduling and Resource Management

- Building a Work Breakdown Structure WBS for construction projects
- Developing project schedules using the Critical Path Method CPM
- Allocating and leveling resources for efficient execution
- Applying schedule compression techniques such as crashing and fast tracking

Day 3: Cost Estimation and Control

- Understanding cost estimation methodologies for construction projects
- Developing accurate project budgets and cost plans
- Implementing Earned Value Management EVM for performance measurement
- Managing cash flow forecasting and financial tracking

Day 4: Risk Management and Quality Control

- Identifying and assessing project risks at all phases
- Developing and implementing risk response strategies
- Applying quality management systems specific to construction
- Conducting inspections, tests, and quality assurance procedures

Day 5: Project Execution and Closeout

- Managing contracts, changes, and documentation
- Monitoring progress and reporting project performance
- Managing subcontractors, vendors, and suppliers effectively
- Executing project closeout and capturing lessons learned

Individual Impact

Participants will return with the ability to:

- Build comprehensive construction project plans tailored to real-world challenges.
- Develop detailed CPM schedules and manage resources effectively.
- Implement EVM systems to monitor cost and schedule performance.
- Conduct structured risk assessments and develop mitigation plans.

Organizational Impact

Organizations benefit through:

- Improved project delivery performance across construction teams.
- More accurate scheduling, budgeting, and forecasting.
- Stronger risk management and quality control processes.
- Enhanced communication and alignment among project stakeholders.



Training Methodology

This program blends conceptual instruction with practical application through:

- Real-world construction project simulations and case studies
- Schedule-building and cost-control exercises
- Risk management workshops and EVM tools
- Facilitator-led discussions connecting theory to job-site realities

Beyond the Course

Upon completion, participants will be equipped with the knowledge, tools, and confidence to lead construction projects successfully. They will return ready to deliver projects that meet scope, schedule, and cost requirements—while ensuring quality, safety, and stakeholder satisfaction.

