



Technical Project Management Training: Tools, Methods & Execution

14 – 18 December 2026
Istanbul

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Ref: 103600687_83847 **Date:** 14 – 18 December 2026 **Location:** Istanbul **Fees:** 4500 Euro

Overview

Engineering and software initiatives demand rigorous coordination across architecture, scheduling, cost control, and cross-functional teams. This Technical Project Management Training equips professionals to bridge technical architecture with disciplined execution frameworks. Participants explore predictive and adaptive methodologies, work breakdown structures, critical path scheduling, and earned value analysis to steer technical initiatives with precision. This course is delivered by Agile Leaders Training Center.

Who Should Attend

- Technical project managers seeking structured execution frameworks for complex technical initiatives.
- Engineering managers and software development leads overseeing multidisciplinary project delivery.
- Systems engineers responsible for baseline requirements, interface controls, and technical verification.
- Project management office specialists tasked with standardizing technical governance and performance tracking.
- Technical team leads transitioning into broader project scheduling and resource management roles.

Departments and Industries

This programme serves technical leaders across technology, heavy industry, and engineering environments.

- Software Development and IT Operations in Cloud and Telecommunications
- Systems Engineering and Integration in Aerospace and Defense
- Capital Projects and Plant Engineering in Energy and Manufacturing
- Hardware Product Development and R&D Units in Electronics
- Civil Infrastructure and Technical Governance in Transportation

Learning Objectives

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

- Apply technical project lifecycle concepts across predictive, adaptive, and hybrid models.
- Construct robust work breakdown structures and critical path schedules using OpenProject and GanttProject.
- Evaluate project cost and schedule variances using Earned Value Management formulas.
- Identify, evaluate, and mitigate interface risks and technical performance bottlenecks.
- Align systems engineering processes with project management baseline controls.
- Facilitate change control and configuration governance across multi-tier stakeholder groups.

Course Agenda

Day 1: Foundations and Lifecycle Architecture

- Principles of technical project management across systems engineering lifecycles
- Predictive versus adaptive planning models for complex technical deliverables
- Stakeholder alignment and technical requirements elicitation protocols
- Work breakdown structure formulation for engineering components
- Introduction to project scheduling software using OpenProject and GanttProject
- Governance structures and decision gate reviews in technical delivery

Day 2: Planning, Estimating, and Risk Governance

- Technical specification baselines and requirement traceability matrices
- Critical Path Method diagramming and schedule network analysis
- Parametric and three-point cost estimation techniques for technical teams
- Technical risk assessment matrices and failure mode identification
- Interface management and interdependency mapping across subsystems
- Feasibility evaluation and trade-off analysis during project planning

Day 3: Execution, Control, and Earned Value Management

- Earned Value Management calculations including CPI, SPI, and estimate at completion
- Key performance indicator dashboards for tracking engineering productivity
- Technical change control processes and configuration baseline management
- Resolving design conflicts and managing technical team dynamics
- Quality assurance protocols and technical compliance audits
- Managing technical debt and resolving operational constraints

Day 4: Hybrid Delivery and Systems Integration

- Implementing Agile frameworks within technical and hardware environments
- Waterfall delivery mechanisms for safety-critical engineering baselines
- Hybrid project structuring combining sequential gates with iterative sprints
- Systems integration lifecycles, interface management, and interoperability
- Verification, validation, and testing protocols for complex components
- Scenario planning and architectural tradeoff evaluations

Day 5: Optimization, Emerging Tools, and Handover

- Predictive analytics and data visualization for project milestone forecasting
- Task automation and digital twin monitoring concepts in project delivery
- Design thinking principles applied to technical problem-solving
- Commissioning protocols, system acceptance, and operational handover
- Lessons learned documentation and post-implementation performance audits
- Long-term asset sustainability and process tailoring for technical teams



Practical Exercises

Participants apply core principles through hands-on simulations and technical scenario workshops.

- Construct a detailed work breakdown structure and critical path schedule for an engineering project.
- Compute cost and schedule variance indices using an Earned Value Management dataset.
- Draft an engineering change proposal assessing scope, schedule, and cost impacts.
- Formulate a hybrid Agile-Waterfall integration plan for a multi-tiered technical system.

FAQs

What prerequisites are required before attending this course?

A foundational background in engineering, information technology, or technical operations is recommended. Prior involvement in team coordination or project delivery assists in contextualizing the exercises.

How is the daily schedule structured?

Instruction runs over five days, structured across interactive lectures, tool walkthroughs, and practical case studies totaling approximately 20 to 25 instructional hours.

What distinguishes technical project management from traditional project management?

Traditional project coordination centers primarily on general baseline tracking across time and budget. Technical project management incorporates engineering constraints, technical feasibility, systems architecture, interface dependencies, and quantitative execution metrics.