



Advanced Tech Project Leadership Excellence

02 - 13 Aug 2027
Amsterdam

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Ref.: 103600486_71201 **Date:** 02 - 13 Aug 2027 **Location:** Amsterdam **Fees:** 10000 **Euro**

Course Overview:

The Technical Project Management Training Course: Tools, Methods & Execution is a comprehensive, hands-on corporate training program designed to equip professionals with the strategic, technical, and managerial skills required to manage complex engineering and IT projects. Drawing upon globally recognized standards such as PMBOK, systems engineering frameworks, and hybrid project management approaches, this course empowers participants to integrate technical project management principles with real-world execution.

Participants will gain expertise in using Agile and Waterfall methodologies, understanding predictive vs. adaptive planning, applying the Work Breakdown Structure WBS, mastering tools like OpenProject and GanttProject, and effectively handling technical performance analysis, earned value management, and risk mitigation in engineering projects. Emphasis is placed on stakeholder analysis, change control, design thinking, and optimization within complex technical environments.

Target Audience:

- Technical Project Managers
- Engineering Managers
- IT Project Leads
- Systems Engineers
- Project Management Professionals PMP candidates
- Software Development Team Leaders

Targeted Organizational Departments:

- Project Management Office PMO
- Engineering & R&D
- IT & Software Development
- Product Development
- Quality Assurance
- Operations & Technical Support

Targeted Industries:

- Information Technology IT
- Engineering & Construction
- Aerospace & Defense
- Telecommunications
- Manufacturing
- Oil & Gas
- Smart Infrastructure & Energy

Course Offerings:

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

- Apply technical project lifecycle concepts using predictive and adaptive models
- Manage stakeholder requirements and technical specifications
- Develop WBS, CPM, and project schedules using industry-standard tools
- Evaluate performance using Earned Value Management for engineers
- Identify, assess, and manage technical and project risks
- Integrate PMBOK tools with systems engineering processes
- Lead hybrid Agile-Waterfall project teams effectively
- Conduct technical performance analysis and drive project optimization
- Utilize OpenProject or GanttProject for schedule and resource planning
- Communicate effectively with technical teams and project stakeholders

Training Methodology:

This course blends theoretical depth with practical application. Participants will engage in:

- Interactive workshops focused on Agile and Waterfall case simulations
- Hands-on software labs using OpenProject and GanttProject
- Stakeholder requirement elicitation and WBS structuring exercises
- Real-world case studies from engineering and IT projects
- Role-play scenarios for stakeholder communication and change control
- Performance evaluation drills using EVM and risk matrices
- Reflective review sessions to anchor learning outcomes

Course Toolbox:

- Training slides and participant workbook
- WBS templates and CPM diagrams
- Risk management checklists
- Change control templates
- Software demos: OpenProject, GanttProject

Course Agenda:



Day 1: Foundations of Technical Project Management

- **Topic 1:** Introduction to Technical Project Management in Engineering & IT Environments
- **Topic 2:** Role of the Technical Project Manager vs. Traditional Project Manager
- **Topic 3:** Systems Engineering Principles and Their Alignment with Project Management
- **Topic 4:** Technical Project Lifecycle Phases and Governance Checkpoints
- **Topic 5:** Stakeholder Identification, Roles, and Technical Influence Mapping
- **Reflection & Review:** Aligning PMBOK® principles with systems engineering foundations

Day 2: Requirements, Planning, and Estimation Techniques

- **Topic 1:** Stakeholder Requirements Elicitation and Technical Scope Definition
- **Topic 2:** Translating Technical Requirements into Project Deliverables
- **Topic 3:** Work Breakdown Structure WBS Development for Technical Projects
- **Topic 4:** Critical Path Method CPM and Network Diagram Analysis
- **Topic 5:** Time, Cost, and Resource Estimation Techniques for Engineering Projects
- **Reflection & Review:** Mapping planning tools to real-world technical constraints

Day 3: Execution, Monitoring, and Control of Technical Projects

- **Topic 1:** Technical Project Execution Strategies and Team Coordination
- **Topic 2:** Earned Value Management EVM for Technical Performance Tracking
- **Topic 3:** Schedule, Cost, and Scope Control in Complex Projects
- **Topic 4:** Change Control, Configuration Management, and Impact Analysis
- **Topic 5:** Managing Technical Quality, Standards, and Engineering Constraints
- **Reflection & Review:** Performance control lessons from engineering and IT projects

Day 4: Agile, Waterfall, and Hybrid Delivery Models

- **Topic 1:** Agile Project Management Principles for Technical Teams
- **Topic 2:** Waterfall Methodology in Engineering and Infrastructure Projects
- **Topic 3:** Hybrid Agile-Waterfall Models and Use-Case Selection
- **Topic 4:** Managing Complexity, Dependencies, and Interdisciplinary Teams
- **Topic 5:** Scenario-Based Decision Making in Technical Project Environments
- **Reflection & Review:** Selecting the right delivery model for technical complexity



Day 5: Systems Integration and Advanced Technical Execution

- **Topic 1:** Technical Architecture and Design Considerations for Project Managers
- **Topic 2:** System Integration Lifecycle and Interface Management
- **Topic 3:** Verification and Validation V&V in Complex Systems
- **Topic 4:** Managing Interoperability, Standards, and Technical Debt
- **Topic 5:** Architecture Trade-Off Analysis and Optimization Techniques
- **Reflection & Review:** Preventing integration failures in large technical programs

Day 6: Data-Driven, AI-Enabled, and Strategic Project Management

- **Topic 1:** Data-Driven Decision Making in Technical Projects
- **Topic 2:** Using AI and Predictive Analytics for Forecasting and Planning
- **Topic 3:** Automating Project Monitoring, Reporting, and Dashboards
- **Topic 4:** Digital Twins and Smart Monitoring in Engineering Projects
- **Topic 5:** Ethical, Risk, and Governance Considerations of AI in Projects
- **Reflection & Review:** Assessing organizational readiness for AI-enabled projects

Day 7: Governance, Certification, and Capstone Application

- **Topic 1:** Technical Project Governance Structures and Decision Gates
- **Topic 2:** Risk, Compliance, and Audit Requirements in Technical Environments
- **Topic 3:** Key Performance Indicators KPIs and Metrics for Technical Projects
- **Topic 4:** Preparing for Technical Project Management Certifications PMP®, CAPM®, PgMP®
- **Topic 5:** Capstone Simulation: End-to-End Technical Project Execution
- **Reflection & Review:** Lessons learned, professional development, and course closure

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

A background in engineering, IT, or project environments is recommended. Prior exposure to project coordination or stakeholder engagement is helpful but not required.



How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans seven days, approximately 28-35 hours of instruction.

What's the difference between a technical project manager and a traditional project manager?

A traditional project manager focuses on time, budget, and scope. A technical project manager also dives into systems engineering, technical feasibility, stakeholder requirements analysis, and tool-based execution.

How This Course is Different from Other Technical Project Management Courses:

Unlike generic project management training, this course uniquely blends systems engineering principles with PMBOK methodologies to address the complex demands of technical environments. It provides hands-on exposure to both predictive and adaptive models, enabling participants to navigate between Agile, Waterfall, and hybrid project delivery approaches.

Case studies from aerospace, construction, and IT infrastructure projects ground the learning in real-world applications. We also integrate tools like OpenProject and GanttProject, and cover Earned Value Management, technical performance analysis, and stakeholder-driven planning.

This course provides unmatched depth, relevance, and professional application. No software is provided, but participants will receive templates, examples, and tool walkthroughs to apply post-training.

This makes it ideal for professionals targeting Technical Project Manager Certification, a PMP for engineers, or aiming to enhance their technical execution leadership skills.



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