IT PROJECT MANAGEMENT



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Introduction

IT Project Management examines how technology teams deliver systems, platforms, and integrations within fixed scope, budget, and business expectations. This Training Course covers the software delivery lifecycle, requirements management, vendor and contract management, testing, and go-live assurance. Participants study the PMBOK Guide performance domains, agile and hybrid delivery with Scrum and Kanban, the Software Development Life Cycle and DevOps continuous delivery, requirements traceability matrices, work breakdown structures and critical path scheduling, earned value management with SPI, CPI and TCPI, Monte Carlo schedule risk analysis, ITIL 4 service transition practice, COBIT 2019 governance objectives, ISO/IEC 27001 information security alignment, ISO/IEC 25010 software quality characteristics, data migration and cutover planning, and user acceptance testing design. Furthermore, the programme connects method to delivery through requirements labs, testing workshops, and go-live rehearsal simulations.

IT Project Management Course Objectives

- Apply the PMBOK Guide performance domains to IT delivery.
- Select agile, hybrid, or predictive delivery for IT projects.
- Apply Scrum, Kanban, and DevOps practice to software delivery.
- Build requirements traceability matrices and manage scope change.
- Develop work breakdown structures and critical path schedules.
- Apply earned value management with SPI, CPI, and TCPI.
- Design test strategy, test cases, and user acceptance testing.
- Apply ITIL 4 service transition and COBIT 2019 governance practice.
- Align delivery with ISO/IEC 27001 security requirements.
- Plan data migration, cutover, and go-live with rollback options.

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Course Methodology

- Interactive workshops using real IT project files and backlogs.
- Requirements and traceability matrix labs.
- Sprint and Kanban board design exercises.
- Testing, migration, and cutover planning workshops.
- Go-live rehearsal and service transition simulations.

Who Should Take This Course

- IT project managers and delivery leads.
- Business analysts on technology projects.
- Software development managers and team leads.
- PMO analysts supporting IT portfolios.
- Infrastructure and operations transition staff.
- Vendor and contract managers in IT.
- Technical specialists moving into delivery roles.

IT Project Management Course Outlines

Day 1: IT Project Foundations

- The PMBOK Guide performance domains applied to IT.
- IT project types: development, integration, infrastructure, and data.
- Agile, hybrid, and predictive delivery selection.
- The Software Development Life Cycle and DevOps principles.
- IT governance: COBIT 2019 and ITIL 4 overview.

- Common failures: undefined requirements, no cutover plan, hidden dependencies.
- Building the IT project foundation pack.

Day 2: Requirements, Scope, and Backlog

- Requirements elicitation for technology projects.
- User stories, acceptance criteria, and Given-When-Then.
- Requirements traceability matrices and scope control.
- Backlog management and prioritisation with MoSCoW.
- Scrum roles, events, and artefacts in practice.
- Kanban boards, work in progress limits, and flow metrics.
- Building the requirements and backlog pack.

Day 3: Planning, Scheduling, and Cost Control

- Work breakdown structures for IT deliverables.
- Estimation with story points, function points, and three-point methods.
- Critical path method and dependency management.
- Resource and capacity planning in matrix IT organisations.
- Cost estimating and IT budget baseline construction.
- Earned value management with SPI, CPI, and TCPI.
- Building the planning and control pack.

Day 4: Quality, Security, and Testing

- ISO/IEC 25010 software quality characteristics.
- Test strategy, test levels, and test case design.
- User acceptance testing and business sign-off.

- Defect management, severity, and resolution discipline.
- ISO/IEC 27001 alignment for project security.
- Privacy, data protection, and access control requirements.
- Building the quality and testing pack.

Day 5: Delivery, Transition, and Closure

- Data migration strategy, mapping, and validation.
- Cutover planning, runbooks, and rollback options.
- Go/no-go criteria and go-live rehearsal.
- ITIL 4 service transition and operational handover.
- Warranty period, hypercare, and defect resolution.
- Lessons learned, benefits realisation, and closure.
- Personal action plan and continuous improvement.

Conclusion

By successfully completing IT Project Management, participants will have acquired a practical command of IT delivery models, requirements and backlog management, scheduling and cost control, quality and security requirements, testing, and transition to operations. They will know how to select the right delivery approach for each IT project, trace requirements from need to acceptance, and plan a cutover with a tested rollback rather than hoping for a clean go-live. In addition, the course prepares delegates to hand systems into operations with evidence rather than promises. As a result, they return to work ready to deliver IT projects that stay within scope, budget, and business expectation. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

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FAQs for the IT Project Management course

Q1 What is the "IT Project Management" course about?

It is a five-day programme on delivering systems, platforms, and integrations within fixed scope, budget, and business expectations. It covers the PMBOK Guide performance domains, the Software Development Life Cycle and DevOps, Scrum and Kanban, requirements traceability, critical path scheduling, earned value management, ISO/IEC 25010 quality, ISO/IEC 27001 security alignment, ITIL 4 service transition, COBIT 2019 governance, and cutover planning.

Q2 What are the key benefits of the "IT Project Management" course?

Participants gain the ability to select the right delivery approach for each IT project, trace requirements from need to acceptance, and plan a cutover with a tested rollback rather than hoping for a clean go-live. They also learn to hand systems into operations with evidence rather than promises.

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Q3 What skills will I gain from the "IT Project Management" course?

IT foundations with PMBOK performance domain application, IT project type classification, agile, hybrid and predictive selection, and DevOps principle use, requirements and backlog work with requirements elicitation, user story writing, acceptance criteria design, traceability matrix construction, scope control, backlog prioritisation with MoSCoW, Scrum event facilitation, Kanban board design, and flow metric measurement, planning and cost work with work breakdown structure construction, story point, function point and three-point estimation, critical path analysis, dependency management, capacity planning, cost estimating, budget baselining, and earned value interpretation with SPI, CPI and TCPI, and quality, security and transition work with ISO/IEC 25010 characteristic application, test strategy and test case design, user acceptance testing execution, defect management, ISO/IEC 27001 alignment, privacy and access control requirement design, data migration planning, cutover runbook construction, rollback design, go/no-go criteria setting, go-live rehearsal delivery, ITIL 4 service transition application, hypercare design, benefits realisation, and lessons learned capture.

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Q4 What tools, methods, or standards are covered in the "IT Project Management" course?

The course covers the PMBOK Guide performance domains applied to IT, IT project types across development, integration, infrastructure and data, agile, hybrid and predictive delivery selection, the Software Development Life Cycle and DevOps principles, IT governance across COBIT 2019 and ITIL 4, common failures across undefined requirements, no cutover plan and hidden dependencies, requirements elicitation for technology projects, user stories, acceptance criteria and Given-When-Then, requirements traceability matrices and scope control, backlog management and prioritisation with MoSCoW, Scrum roles, events and artefacts in practice, Kanban boards, work in progress limits and flow metrics, work breakdown structures for IT deliverables, estimation with story points, function points and three-point methods, critical path method and dependency management, resource and capacity planning in matrix IT organisations, cost estimating and IT budget baseline construction, earned value management with SPI, CPI and TCPI, ISO/IEC 25010 software quality characteristics, test strategy, test levels and test case design, user acceptance testing and business sign-off, defect management, severity and resolution discipline, ISO/IEC 27001 alignment for project security, privacy, data protection and access control requirements, data migration strategy, mapping and validation, cutover planning, runbooks and rollback options, go/no-go criteria and go-live rehearsal, ITIL 4 service transition and operational handover, warranty period, hypercare and defect resolution, and lessons learned, benefits realisation and closure.

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Q5 How is the "IT Project Management" course applied in real-world practice?

Delegates apply it through delivery approach assessments, IT project charters, life cycle plans, DevOps pipeline designs, governance frameworks, requirements registers, user stories, acceptance criteria sheets, traceability matrices, scope statements, change requests, product backlogs, sprint backlogs, prioritisation tables, Scrum event calendars, Kanban boards, work in progress limits, cumulative flow diagrams, cycle time reports, work breakdown structures, estimation records, story point logs, function point counts, three-point estimates, network diagrams, critical path analyses, dependency logs, resource plans, capacity plans, cost estimates, IT budget baselines, earned value reports, SPI and CPI calculations, TCPI models, quality plans, test strategies, test cases, test execution records, defect logs, severity matrices, security requirement registers, access control matrices, privacy impact assessments, data migration plans, data mapping documents, validation records, cutover runbooks, rollback procedures, go/no-go checklists, rehearsal records, service transition plans, support model documents, hypercare plans, warranty records, benefits realisation registers, closure reports, and lessons learned registers. They also use them to chair sprint reviews and steering committees and to hand systems into operations with documented evidence.