

Introduction

This advanced training course is designed for experienced project managers who wish to enhance their knowledge of effective project management strategies and leverage advanced project and program management techniques.

The course emphasizes the importance of robust, effective project management processes within an organization's culture. It also highlights the critical role of senior management in supporting these practices and ensuring their successful integration within the organization.

Throughout the course, participants will explore enhancements in areas such as project scope management and stakeholder analysis. They will also be introduced to the latest tools and technologies for engaging with stakeholders and ensuring quality is embedded in their projects.

Additionally, the course delves into advanced concepts and techniques in project planning, estimating, and scheduling, including queuing theory, the Theory of Constraints (Critical Chain Project Management), and other sophisticated strategies to create dependable and efficient project plans.

Moreover, the course provides in-depth learning in program risk and uncertainty analysis. Participants will gain strategies for managing uncertainty, understanding the interconnectedness of project risks, and applying advanced techniques to identify and quantify both project and program risks.

Targeted Groups

- Project Managers
- Project Office Members
- Project Sponsors
- Functional Managers
- Senior Management and individuals interested in project management

Course Objectives

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

- Apply effective project management techniques across the entire project lifecycle.
- Use reliable metrics to track project progress, avoiding speculative tracking methods.

- Manage complex vendor relationships efficiently.
 - Improve time and cost estimation for high-risk projects.
 - Reduce cost and schedule risks using proven advanced techniques.
 - Report progress on complex and risky projects reliably.
 - Upgrade communication plans and engage stakeholders effectively.
 - Master the skills necessary to manage projects successfully.
 - Communicate effectively with all levels of the organization, articulating project progress and needs to senior management.
 - Clearly define project objectives and delegate tasks efficiently.
 - Apply sophisticated scheduling tools and methods for project control and analysis.
 - Develop and apply skills in risk management, contingency planning, and change control.
 - Prioritize tasks and objectives properly for efficient project execution.
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Targeted Competencies

By the end of the course, participants will enhance the following competencies:

- Utilization of advanced scheduling and control tools
 - Effective contingency planning
 - Alignment of projects with organizational strategic objectives
 - Teamwork and conflict management skills
 - Selection, development, and evaluation of project managers
 - Knowledge of purchasing, supply chain management, and contract administration
 - Effective management of supplier relationships
 - Optimization of resource allocation planning
 - Strategies for thriving in resource-constrained environments
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Course Content

Unit 1: Introduction to Effective Project Management

- Understanding the need for projects
- Defining a project and the basics of effective project management
- Exploring various project delivery systems
- Learning about different lifecycle models

Unit 2: Project Selection and Stakeholder Management

- Employing qualitative and quantitative techniques for project selection
- Economic evaluation methods for project selection
- Identifying and selecting the right project manager
- Conducting comprehensive assessments of project objectives and stakeholders
- Analyzing stakeholder expectations and requirements

Unit 3: Advanced Planning Techniques

- Assessing task characteristics and estimating durations accurately
- Reviewing planning and scheduling methods
- Comparing critical path vs. critical chain scheduling
- Exploring resource allocation methods
- Engaging in time-cost trade-off analysis
- Implementing lead/lag scheduling
- Mastering critical chain scheduling

Unit 4: Proactive Project Risk Management

- Defining risk vs. uncertainty
- Analyzing different attitudes towards risk
- Identifying and analyzing risk factors and sources
- Quantifying risks and their potential impacts
- Applying various methods for risk analysis
- Selecting appropriate risk strategies

Unit 5: Effective Execution of Projects

- Applying lean construction strategies
- Effective staff acquisition strategies
- Fostering team development and motivation
- Understanding the difference between leadership and management
- Exploring different management styles and strategies for conflict resolution

Unit 6: Monitoring, Controlling, and Project Closure

- Reporting project accomplishments using earned value management
- Implementing identified risk strategies

- Techniques for effective project closure and learning from outcomes
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This comprehensive course equips participants with advanced skills and knowledge needed to excel in managing projects, particularly in high-risk, complex environments. Through the application of modern techniques in planning, scheduling, risk management, and stakeholder engagement, project managers will gain the tools necessary to enhance project success.