



# Advanced Project Management for IT Professionals



## Description:

In today's dynamic environment, information technology is required to meet strategic business needs. To often the enterprise looks at these as "information technology projects," when in fact, these are business projects with a major information technology component. **Advanced Project Management for IT Professionals** focuses on the critical success factors to meet high quality business solutions in a timely manner. It emphasizes agile development and project management techniques to improve scheduling, communication and teamwork within product teams by taking a look at successful project delivery where information technology plays a key tactical role. This course brings the relationships of project management, software development, testing, user education, change management, and usability processes together to focus on the delivery of quality business solutions—on time.

This course provides an overview of how project management concepts and principles are applied in an information technology environment, using lecture, small group activities, and discussions. The course allows each team to follow a project from design to completion, using the project management life cycle.

## Duration:

3 days

## Learning Objectives:

- Link the organization's strategic direction with tactical implementation through portfolio management
- Apply project prioritization techniques used to develop a project portfolio
- Manage projects across the portfolio
- Understand the connection between portfolio management and project management
- Include project quality and risk as part of the project plan
- Integrate software development methodologies with proven project management techniques
- Understand the difference between organizational structures and project structures
- Apply different software development life cycles to manage the project based on degree of project complexity, team structure and risk requirements
- Understand the critical success factors required for Agile Development projects
- Understand the relationship of the Requirements Specification Document to all project activities
- Identify cross-functional project roles required for successful business solutions utilizing information technology
- Understand the requirements for credible project estimates
- Identify the basic Earned Value elements and understand how Earned Value translates to progress measures
- Calculate the basic Earned Value formulas

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**Suggested Audience:** The course offers experienced IT project managers a unique opportunity to enhance their expertise, develop professionally and achieve success for themselves and their organizations.

**Prerequisites:** An understanding of project management practices is a prerequisite to this course. This course assumes that the participants have knowledge of in systems development and quality assurance practices.

**PMBOK® Guide Areas Covered:** Participants are eligible for 21 PDU's.  
Project Scope Management  
Project Cost Management  
Project Risk Management  
Project Quality Management  
Project Procurement Management  
Project Human Resources Management  
PMBOK is a registered mark of Project Management Institute, Inc.

**Topics Covered:** **COURSE OBJECTIVE**  
Why Are Projects So Difficult?  
SPMN Best Practices for Successful IT Projects  
Integrating the Project Management and Software Development Infrastructure Processes

#### **INITIATION ADVANCED TOPICS**

##### **Organizing for Success**

- The Project Environment
- Project Structures

##### **Who's Who**

- Project Roles
- Project Kick-Off Meeting Guidelines

##### **Selecting the "Right" Projects**

- Strategic Planning Overview
- Tactical Planning Overview
- Project Portfolio Management Overview
- The Project Charter

##### **Transitioning to Planning**

- The Software Development and Management Plan

##### **Working With Strategic Business Partners**

- Procurement Basics
- Contract Management

#### **PLANNING ADVANCED TOPICS**

##### **Requirements Come First**

- Elements of a Good RSD
- Deliverable Definition

##### **Selecting the Appropriate SDLC**

- Waterfall
- Prototyping Model
- Spiral Model
- Iterative Development
- Agile Development

##### **What's In a Number?**

- Causes of Poor Estimation
- Phase-limited Commitment
- Estimating Guidelines
- Factors that Affect All Phases
- Estimate Distribution

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**Resource Planning**

- Project Budget/Cost Categories
- Staffing Challenges
- Staffing Considerations
- Resource Planning

**Risk Analysis**

- Dragon Management: 101
- Review the Risk Management Plan

**EXECUTION AND CONTROL ADVANCED TOPICS****Keep Your Friends Close and Your Test Team Even Closer**

- Quality Assurance Activities and the SDLC
- Testing Project Deliverables: From Concept to Production

**Why Measure?**

- What Gets Reviewed?
- Recommended Progress Measures

**Earned Value Basics**

- Earned Value as a Progress Measure
- Earned Value vs. Schedule Progress Measures

**CLOSURE ADVANCED TOPIC****The Project Retrospective**

- The Purpose of a Project Retrospective
- Interim Retrospectives
- Retrospective Guidelines

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