

Project Schedule Management (Preparation for PMI-SP Certification)

Introduction

The PMI-SP credential recognizes individuals who provide expertise in the specialized area of developing and maintaining the project schedule. This global credential acknowledges individuals who strengthen and support project management by offering knowledge specific to project scheduling.

Who Should Attend?

Project Managers, Project Planners, Project Coordinators, Project Team Members, Executive Managers, Site Engineers, IT Professionals, Event Managers and others who are directly or indirectly involved in project management.

Course Deliverables

- 30 PDUs (can be claimed to qualify for and maintain PMI credentials)
- Certificate of Attendance from LIFELONG (PMI R.E.P.)
- Original copy of PMI Schedule Management Standard
- Course manual and sample exam questions

Course Outline

Schedule Mission Management

- Identifying key issues in successful scheduling
- Analyzing your scheduling approach
- Delivering a project

Schedule Creation

- Building the Project Network Diagram
 - Identifying the work
 - Deriving information from project scope and constraints
 - Building a deliverable-oriented WBS that defines the scope of the project
 - Translating a WBS into an activity list
 - Establishing a sequence
 - Applying network diagrams: AOA, AON
 - Reviewing CPM and PERT
 - Defining precedence relationships
 - Establishing dependencies
 - Determining lead and lag times
- Developing Robust Schedule Estimates
 - Choosing the right estimating techniques
 - Differentiating between estimating models
 - Explaining the difference between effort and duration
 - Dealing with uncertainty
 - Estimating for activity duration
 - Differentiating between duration and resources usage
 - Factoring in productivity to determine true duration
- Integrating the Schedule and Critical Path
 - Computing the Critical Path
 - Conducting a forward and a backward pass through the network diagram to determine activity start and end times
 - Deriving float to identify areas of flexibility in the schedule
 - Calculating the critical, near-critical, and noncritical path
 - Creating Gantt charts
 - Establishing the project duration and end date
 - Representing relative durations of activities graphically using a Gantt chart
 - Resource requirements
 - Building a resource breakdown structure
 - Identifying the project resource pool

- Schedules that make sense
 - Allocating resources effectively
 - Addressing resource constraints
 - Creating a baseline schedule

Schedule maintenance

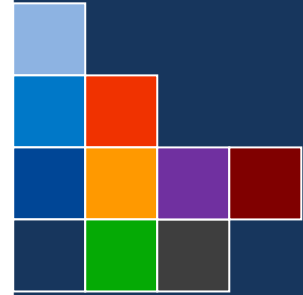
- Establishing procedures for maintaining and updating the project schedule
- Evaluating the schedule against the Schedule Conformance Index
- Defining the frequency and format of activity status reports
- Updating and maintaining the plan
- Collecting activity status from activity owners
- Recording actual durations

Schedule Analysis

- Performing schedule-based Earned Value Analysis (EVA)
- Defining the frequency and detail for measuring performance
- Determining the variance between planned and actual values
- Calculating schedule efficiency
- Forecasting the impact to the Critical Path and project duration
- Identifying alternative project delivery approaches
- Distinguishing between fast-tracking the project and crashing the critical path
- Creating parallel schedules in order to determine the feasibility of proposed changes

Schedule Communication / Reports

- Identifying reporting needs
- Interfacing project information with organizational reporting needs
- Aligning project monitoring to project planning
- Generating schedule reports
- Establishing standard project reports
- Reporting project status using EVA, milestones and Critical Path



Course Focus

Project managers must balance scarce resources and deliver under strict deadlines in the face of ever-increasing customer expectations. Tailored to align with the PMI Scheduling Professional (PMI-SP) certification, this course provides the skills required to schedule and deliver critical projects on time. By performing tasks manually and with third-party software, you practice key scheduling techniques for future project success.

Prerequisites

General project management experience

Course Level

Intermediate /Advanced

Course Duration

30 Hours