PMI Scheduling Professional (PMI-SP)

Introduction

The PMI-SP certification acknowledges the individual's unique expertise on the project team while demonstrating the recognition and value the role provides to the project management profession. In this role, an individual has more competence in the specialized area of developing and maintaining the project schedule than a general practitioner and yet, also maintains a basic level of competence in all areas of project management.

Employers can trust certification holders to possess the skills, knowledge, and experience to contribute directly to their crucial projects. This global certification also supports individuals in meeting organizational needs; organizations can be confident in hiring capable, experienced practitioners as well as having a means for a career development path.

Course Highlights

- Planning & Scheduling; Control
- Component of the Schedule
- Best Practice of Scheduling
- Time Crashing
- Resource Optimization Techniques
- CPM Calculation & Different Types of Float

Course Outline

Domain I	**Schedule Strategy**
Task 1	Establish project schedule configuration management policies and procedures incorporating best practices, regulations, governing standards, and organization policies, and procedures to ensure accessibility, storage, retrieval, maintenance, change control, and baseline schedule control.
Task 2	Develop a scheduled approach, based on the unique characteristics of the project, including enterprise environmental factors and organizational process assets, in order to define schedule requirements.
Task 3	Establish scheduling policies and procedures regarding methodology, selection of a scheduling tool, scheduling parameters, performance thresholds, activity granularity, presentation format, earned value management (EVM) implementation, analysis techniques, and approval requirements by using resources such as organizational process assets and project documents in order to develop the schedule management plan and standardize operational procedures.
Task 4	Develop the scheduling-related components for project management plans (for example, integration, scope, cost, quality, resources, communication, risk, and procurement management), through review of contract requirements, in order to integrate scheduling activities into the overall project management process.
Task 5	Provide information about project scheduling objectives and goals, the role of the scheduler, and scheduling procedures to project team members to facilitate effective participation in the project.
Domain II	**Schedule Planning and Development**

Task 1	Develop the work breakdown structure (WBS), organizational breakdown structure (OBS), control accounts (CA), and work packages through communication with subject matter experts and stakeholders and analysis of the contractual commitments in order to ensure completion of the project scope.
Task 2	Define activities and milestones through communication with subject matter experts, decomposition, and application of scheduling policies and procedures to identify and document the work to be performed.
Task 3	Estimate activity durations, utilizing subject matter experts and scheduling techniques such as three-point estimate, parametric, analogous, and/or Program Evaluation and Review Technique (PERT) in order to develop an overall schedule model.
Task 4	Sequence activities, incorporating defined dependencies (internal, external, and cross programs) milestones, and constraints (for example, calendars, geography, contracts), in order to develop a logical, dynamic schedule model.
Task 5	Identify critical and near-critical path(s) using techniques such as Critical Path Method, Critical Chain, Program Evaluation and Review Technique (PERT), and Monte Carlo simulation in order to meet project delivery date requirements.
Task 6	Develop the project resource breakdown structure (RBS), determine resource availability, and assign resources to activities by working with functional managers, project managers, and project team members in order to define the resource-constrained schedule.
Task 7	Adjust schedule model based upon resource availability, available budget, and other known constraints in order to calculate the resource-constrained schedule.
Task 8	Align schedule with the overall program plan or integrated master plan (IMP), through review of enterprise objectives and contract documentation, in order to ensure accomplishment of overall program objectives.
Task 9	Analyze major milestones against the statement of work (SOW), the contract, and/or memorandum of understanding, to assess whether schedule model delivery estimates meet required deadlines.
Task 10	Perform schedule risk analysis using quantitative tools or techniques (for example, what-if scenarios, Monte Carlo simulation) in order to determine if project milestone dates are achievable within acceptable risk tolerances.
Task 11	Obtain a consensus of the project customer, sponsor, project manager, and project team members, in order to establish an approved baseline schedule.
Task 12	Establish the Performance Measurement Baseline (PMB), using organizational processes and standard techniques, in order to enable performance measurement and management.
Domain III	**Schedule Monitoring and Controlling**
Task 1	Collect activity status at defined intervals from activity owners via reports, meetings, inspections, or other standard procedures in order to update and review the project progress.
Task 2	Collect resource information and updates via reports, timesheets, meetings, inspections, or other standard procedures in order to report on resource utilization and availability.
Task 3	Perform schedule analysis and audit, on in-house and subcontractor schedules, using industry standards, guidelines, and best practices in order to identify and report project schedule, status, changes, impacts, or issues.
Task 4	Identify alternative project execution options, using tools and techniques such as what-if scenario analyses, in order to optimize the schedule.

Task 5	Incorporate approved risk mitigation activities into the schedule, by utilizing defined change control processes, in order to establish a new performance measurement baseline (PMB).
Task 6	Update the schedule model and document schedule baseline changes, received through formal change-control processes, in order to maintain an accurate schedule and facilitate forensic schedule analysis if required.
Domain IV	**Schedule Closeout**
Task 1	Obtain final acceptance of the contractual schedule components, by working with a sponsor and/or customer, in order to facilitate project closeout.
Task 2	Evaluate final schedule performance against baseline schedule, scheduling approach, and the implementation, using standard scheduling tools and techniques, including solicitation of feedback from stakeholders, in order to identify lessons learned and develop best practices.
Task 3	Update the organizational process assets, through documentation of identified lessons learned and best practices, in order to improve business processes.
Task 4	Distribute final schedule reports, including earned value management (EVM) calculations and variance analysis, to stakeholders in order to facilitate project closeout.
Task 5	Archive schedule files (for example, final schedule model, schedule management plan, periodic status reports, schedule changelog), as per defined procedures in order to satisfy contractual requirements and prepare for potential forensic schedule analysis.
Domain V	**Stakeholder Communications Management**
Task 1	Develop and foster relationships with project stakeholders, consistent with the communication management plan, in order to enhance support for the project schedule.
Task 2	Generate and maintain visibility of project schedule, by working with the project manager and/or stakeholders, in order to maintain stakeholder support.
Task 3	Provide senior management and other stakeholders with verbal and written schedule status updates and impact on the schedule of corrective actions, as defined by the communication management plan, in order to maintain stakeholder awareness.
Task 4	Communicate schedule issues that could impact the delivery of project scope or adherence to the schedule management plan, in order to elevate awareness to relevant stakeholders.

Prerequisites

- Secondary degree
- 40 months of project scheduling experience within the last 5 years
- 40 hours of project scheduling education

OR

- Four-year degree
- 24 months of project scheduling experience within the last 5 years
- 30 hours of project scheduling education

Target Audience

This PMI SP Online Training directly expands the scope of various aspects of various job roles involved in the Project management sector. The purpose of this course is to help individuals to learn the tools and techniques for

Project Schedule management. The following list has a detailed list of those individuals for whom this training will be a great experience:

- Graduates seeking a corporate job for Project management
- Professionals from Project management background
- Project managers
- Certified project professionals
- Project schedule managers
- Management students
- Project developers
- Key project stakeholders
- Programmer and developer

Duration

- 24 Hours Training Course