

# PM 257 - Project Schedule Management Course

## Course Outline

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**Revised:** 2020

**Duration:** 1 Day

**PMBok Guide (6<sup>th</sup> Edition) Knowledge Area:** Project Schedule Management

### **Course Description:**

This course provides advanced skills in project schedule development, schedule monitoring and control as defined in A Guide to the Project Management Body of Knowledge (PMBOK).

### **Course Learning Outcomes**

Upon successful completion of the course, the student will be able to

- Create a plan to develop and manage the project schedule.
- Create a list of project activities to incorporate in the project schedule
- Sequence the activities based their attributes interdependence
- Estimate the resources needed for each activity and their duration
- Develop a schedule model
- Develop a detailed project schedule using scheduling techniques or computer software
- Create the project scope baseline
- Manage changes to the schedule

### **Course Topics**

1. Plan Schedule Management
  - Develop of project scheduling approach
  - Analyzing alternatives
  - Creating a process for executing and managing the schedule
  - Creating a process for managing changes to the schedule
  - Creating a schedule management plan
2. Defining Activities
  - Decomposing the WBS
  - Defining the project activities and their attributes
  - Creating a list of activities to be incorporated into the project schedule
  - Creating a list of project milestones

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3. Sequence Activities
  - Determining the logical order of executing the activities
  - Precedence diagramming techniques
  - Dependency determination
  - Using leads and lags
  - Creating a schedule network diagram
  
4. Estimate Activity Durations
  - Conducting alternatives analysis for activity resources requirements
  - Defining agreed activity resource requirements
  - Determining activity durations using estimating techniques
  - Allowing for schedule risk
  
5. Develop Schedule
  - Schedule network analysis
  - Critical path determination
  - Schedule compression
  - Creating the project schedule
  - Establishing the schedule baseline
  
6. Control Schedule
  - Monitoring the project schedule against the schedule baseline
  - Managing change request
  - Maintaining the schedule baseline