

# Planning and Managing Project Triple Constraints

- 4 Days

## Course Description:

This 4 day intensive and comprehensive class addresses project management theory and application for identifying, planning, and managing a project's Scope, Schedule, and Cost. The class uses the Knowledge Areas and Processes of the Project Management Institute's (PMI) Guide to the Project Management Body of Knowledge (PMBOK) as a best-practice framework. Using a combination of theory based lecture, case studies, and practical exercises, students are taught to identify and decompose a project's scope baseline and then develop both the project schedule baseline and budget baseline using several different analysis and estimating techniques. In addition students are provided with an effective tool set for project execution and integrated change control. The course incorporates limited lecture and relies on hands-on exercises and instructor interaction as the key learning vectors.

## Strategic Course Goals and Objectives:

1. Understanding boundaries and interactions of the Project Triple Constraint Model
2. Fluency in project management terminology
3. Understanding project Scope and Requirements
4. Understanding project Schedules, Milestones, and Deadlines
5. Understanding project Resources and Costs
6. The capability to develop the three primary project baselines for either a simple or complex project in preparation for completing a detailed project plan or as a project selection comparative mechanism

## Tactical Skills:

1. Identification of Project Requirements
2. Identification and decomposition of the Project Scope
3. Development and maintenance of the Work Breakdown Structure
4. Identification of project Schedule Activities
5. Development of a project Network Diagram and Gantt chart
6. Development of a Project Schedule Baseline
7. Identification and analysis of the Project's Critical Path and Critical Chain
8. Tools for the development and maintenance of the project Cost/Budget baseline
9. Earned Value Management as an integrated Variance Analysis tool
10. Understanding the impact of Risk on both cost and schedule
11. Understanding the impact of Quality on both cost and schedule

**Course Audience:**

This course is intended for both project team members and project managers wishing to gain a thorough working knowledge of the three variables of the Triple Constraint Model; Scope, Schedule, and Cost. Team members and managers looking to drill down into the detailed mechanics of planning and managing these important project constraints should take this course. This course provides both the novice and seasoned practitioner with advanced tools and mechanics angled at success with even “difficult” projects. Students wishing to take follow-on project management topical courses and/or beginning their preparation for the PMP examination will find significant value in this course.

**Prerequisites:**

Experience as either a project team member or a project manager is recommended.