

# Project Planning and Program Control Processes - Part 2

*PDU*s - 25  
*CEU*s - 2.5

## *PMI's Certification Breakdown*

PMP - 25.00  
PMI-RMP - 3.00

## *PMI's Talent Triangle Breakdown*

Technical - 25.00

**Course Description:** This course will build on the fundamental principles taught in *Project Planning & Program Control Processes Part 1*. It will include new and innovative principles of project planning and program control taught using practical application problems. It will cover essential areas of resource planning, schedule reconciliation, and how to status and manage a project through program control methodology. The Mathis Group is excited to enter into a partnering relationship for this course with Dennis Busch, founder of Project Management Technologies, Inc.

**Method of teaching:** Students will learn tips, techniques and processes through webinars, which can be accessed 24/7 and completed at their own pace. Remember, though, that you must complete the course within 60 days.

## **Course Objectives:**

### **Objective 1: Resource Planning**

- Define what resources are
- Examine the Total Resource Management Problem
- Identify the resource acquisition cycle and its impact
- Compare the Project Level Management Problem and the Resource Modeling process
- Recognize resource pools and their effective availability
- Define resource requirements for each activity
- Develop activity schedule, aggregate resource requirements, availability versus cumulative requirement analysis, and problem identification and quantification

- Discover problem resolution strategies
- Analyze the role of the computer in resource planning, along with its myths and misconceptions
- Describe the budget excuse and why it is invalid
- Summarize an integrated resource system

### **Objective 2: Establish Project Baselines**

- Recall the three baselines: technical, schedule, and cost
- Identify the Schedule Reconciliation process
- Design effective schedule and budget options
- Examine the Principals of Path Dynamics
- Appraise consequences of any action

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- Discuss modeling tools
- Evaluate how to determine, establish, and manage the baselines

### **Objective 3: Performance Measurements and Management**

- Analyze Workscope Change Management
- Examine technical, cost, and schedule performance measurements
- Create actual and projected dates
- Compare activity status, event/milestone status, and model status
- Compose impact analysis through schedule rippling, resource impacts, & effects to total float
- Contrast potential versus real impacts
- Identify path dynamics and management strategies/actions
- Review the impediments of large databases
- Discover the practical level of project modeling
- Discuss the tiers of management and the distribution of management responsibilities
- Show the need for supportive working level detail planning and management, as well as executive support and involvement

### **Objective 4: Reports**

- Examine Management Information – the right product for each specific purpose
- Contrast graphic versus tabular reporting
- Evaluate software utilities (filtering and sorting)

- Discuss coding to exploit data capabilities
- Describe the purpose of various products
- Identify how to use Project Model Diagrams for problem analysis
- List how to report schedule and resource problems

### **Objective 5: Risk & Opportunity Management**

- Define Risk Management
- Compare qualitative and quantitative analysis
- Examine the basics of CPM, ‘What-if’ analysis, PERT process, and the value of 3-time estimates, and Monte Carlo Simulations
- Label risk resolution and opportunity instigation strategies

### **Objective 6: Summary/Conclusions**

- Identify project modeling fallacies
- Discuss the planning ‘Cop-outs’
- Examine the proper expectation of Project Management software
- Review planning and scheduling terminology, essential processes and practical methodology