

Schedule & Cost Control

Course Overview

This instructor-led course provides participants with real world tools to manage the complex problems surrounding schedule and cost management. Students will learn a variety of tools and techniques to see what works and what does not in the real world of project management.

Course Introduction

3m

Course Introduction

Section 01 - Quick PM Review

24m

Quick PM Review

The PMI-SP Process

The PMI-SP Exam

The Basics of PM

The Five Process Groups

The Basics of PM: The Process

The Ten Knowledge Areas

Section 02 - Time Management

58m

Time Management

6.1 Plan Schedule Management

6.2 Define Activities

6.3 Sequence Activities

6.4 Estimate Activity Resources

6.5 Estimate Activity Durations

6.6 Develop Schedule

6.7 Control Schedule

Decomposition

Dependencies

Types of Dependencies

Precedence Diagramming: Finish to Start

Precedence Diagramming: Start to Start

Precedence Diagramming: Finish to Finish

Precedence Diagramming: Start to Finish

Conditional Diagramming

Leads and Lags

Duration Estimating Methods

Bottom-Up Estimating

Analogous Estimating

Expert Judgment for Estimating

Parametric Modeling Estimating

Program Evaluation & Review Technique (PERT)

Resource Considerations

Schedule Creation

Section 03 - Critical Path Method

29m

Critical Path Method
CPM Basics
Critical Paths in Network
Each Task
Critical Path Model
Constraints
Resource Leveling
Simulation
Simulation Advantages & Disadvantages
Duration Compression

Section 04 - Basic Cost Management

20m

Basic Cost Management
7.1 Plan Cost Management
7.2 Estimate Cost
7.3 Determine Budget
7.4 Control Costs
Types of Cost Estimating
Bottom-Up Cost Estimating
Analogous / Top Down Estimating
Parametric Cost Estimating
Types of Project Costs
Accuracy of Estimates
The Cost Baseline
Total Project Budget

Section 05 - Introduction to Earned Value

30m

Introduction to Earned Value
Intro to Earned Value Graphs
Basic Terms
Variances and Performance Indexes
Basic Formulas
Analysis
Forecasting - ETC
Forecasting - EAC
Forecasting - TCPI
Forecasting - ETTC
Forecasting – Other Calculations
Cumulative Cost Curve
EV Performance

Section 06 - Critical Chain Management

53m

Critical Chain Management
Section Objectives
The Current Management Paradigm
Current Project Schedules
Project Schedules
The Results
What Else Can You Do?

Overestimate AKA Pad the Schedule
Management's Response
Resources
A New Paradigm
The Theory of Constraints
Theory of Constraints Meets Project Management
Critical Chain Step 1
Critical Chain Step 2
Viable Schedules
Dependencies
Possible Paths
People on the Critical Chain
Resource Buffers
Project Buffers
Feeding Buffers
Critical Chain Project Management
Original Duration Estimate
Measures
Some Key Ideas

Section 07 - Other Cost Calculations

34m

Other Cost Calculations
Present Value (PV)
Net Present Value Calculation
Net Present Value (NPV)
Future Value Calculation
Internal Rate of Return (IRR)
Return On Investment (ROI)
Payback Period
Benefit Cost Ratio (BCR)
Opportunity Costs (OC)
Depreciation
Common Depreciation Conventions
Straight Line Depreciation
Depreciation Examples
Depreciation Examples UP/O
Double Declining Balance (DDB)
Sum of the Years Digits (SYD)
Course Closure

Total Duration: 4h 11m