

Entry Project Management

Workshop Course U156 • 4 DAYS



You Will Learn How To:

- Plan the successful delivery of a small- to medium-sized government project
- Identify project objectives and evaluate systems engineering processes
- Define project scope and build a Work Breakdown Structure (WBS)
- Determine, sequence and schedule project activities, apply estimation techniques and assess total cost of ownership (TCO)



Active Learning Workshop:

- Creating a project goal statement
- Developing a project WBS
- Applying functional decomposition to allocate system functions
- Performing a three-point estimation and evaluate a TCO
- Scheduling the project work and calculating the critical path
- Assessing a risk management plan

About This Course: Successful project management of government projects requires a broad skill set. In this course, you learn to define project goals, build project plans and create a WBS, schedule tasks and allocate resources. You gain knowledge of TCO planning, systems engineering processes, system validation, and integrated logistics support while identifying project risks and opportunities.

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— D. Ridley, General Manager, Technical Services, Samsung ”

Course Content ► Workshop Course U156 • 4 DAYS

Introducing the FAC-P/PM Program

- Clarifying the FAC-P/PM initiative
- Describing acquisition reforms
- Establishing a culture of accountability
- Identifying government and contractor equities

Applying Core Project Management Skills and Processes

Creating a project plan

- Identifying project objectives
- Writing clear goal statements and defining project scope

Building the Work Breakdown Structure (WBS)

- Estimating task durations and resource needs
- Sequencing project tasks
- Creating the project network diagram
- Scheduling the work and calculating the critical path

Determining Project Total Cost of Ownership (TCO)

Demystifying cost estimation

- Factors that affect the TCO
- The impact of performance life cycle costs
- Explaining life cycle cost categories
- Applying estimation techniques
- Balancing cost-benefit trade-offs

Comparing cost-estimating techniques

- Strengths and weaknesses of cost-estimating methods
- The role of the Government Accounting Office (GAO) in cost estimating
- The GAO’s 12-step cost-estimating process
- Effort vs. effect of the 12-step cost-estimating process

Monitoring and Controlling Project Execution

Defining project management metrics

- Identifying and applying useful metrics
- Tracking milestones
- Maximizing usefulness of a Gantt chart

Tracking defects in project work

- The value of tracking defects
- Performing change control and change request processes
- Responsibilities of a Change Control Board (CCB)

Analyzing project performance with Earned Value Management (EVM)

- Applying EVM techniques to measure and track progress of your project
- Leveraging EVM tools to improve your project

Managing Risks and Opportunities

Identifying and analyzing risks/opportunities

- Evaluating project risks and opportunities
- Categorizing and assessing risks

Assessing impact and probability

- Prioritizing risks/opportunities
- Evaluating potential responses

Monitoring and controlling risks

- Mitigating and controlling risks
- Reducing risk through contingency plans

Applying Systems Engineering

Technical and management system processes

- Integrating decision analysis methods
- Identifying technical plan actions
- Allocating functions
- Managing technical data and interface issues

Integrating the allocation process

- Evaluating requirements development plans
- Incorporating functional analysis

Testing and Validating the System

Creating a test and evaluation plan

- Defining verification and validation steps
- Performing tests and analyses

Integrating modeling and simulation techniques

- Reviewing types of modeling and simulation processes
- The value of system simulation

Preparing for operational tests

- Testing the system
- Applying specific testing and verification tools

Integrating Logistics Support

- Ensuring system reliability and maintainability
- Considering commercial supply chain practices



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