Senior/Expert Program Management - 4 Days

Course U152 Overview

You Will Learn How To

- Conduct total life cycle management for government projects using an Integrated Master Plan
- Oversee the preparation and documentation of an Integrated Master Schedule
- Direct and estimate total cost of ownership (TCO)
- Establish a risk, threats and opportunities management process
- Manage and evaluate decision analysis methods, systems engineering processes and a complex requirements development process
- Supervise a comprehensive test and evaluation strategy (TES) and critique operational test and evaluation (OT&E) programs

Course Benefits

An Integrated Master Plan is key to successfully managing large-scale government projects. Through a complex case study in this course, you gain the skills to coordinate the development of, oversee, evaluate and critique a total life cycle system management Integrated Master Plan and Integrated Master Schedule. You also learn to oversee the application of systems engineering concepts and apply a comprehensive test and evaluation strategy.

Who Should Attend

Senior/Expert program and project managers, directors, sponsors and others seeking Level III FAC-P/PM certification.

Workshop Course

Through an immersive, simulated case study, you gain practical experience evaluating the development and implementation of a complex project management plan. Activities include:

- Reviewing and evaluating an IMP and an IMS
- Evaluating a total cost of ownership estimate
- Assessing a risk (threat/opportunities) management plan
- Reviewing a decision analysis application strategy
- Deciphering a requirements development and implementation plan
- Evaluating a test and evaluation (T&E) strategy plan
- Coordinating and managing changes to the T&E plan
- Developing a performance-based strategy

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Course U152 Outline

Core Project Management Processes

The Integrated Master Plan (IMP) and Integrated Master Schedule (IMS)

- Overseeing the work breakdown structure
- Creating cost-estimation metrics
- The role of earned value management
- Cost, schedule and performance trade-offs
- Performing technical reviews

Tools for evaluating the IMP and IMS

- Applying work loading methods
- Benefitting from project management software

Estimating Total Cost of Ownership

Estimating techniques

- Recognizing the "Cone of Uncertainty"
- Making decisions using the Life Cycle Cost Estimate

Cost-benefit trade-offs

- The Government Accounting Office (GAO) 12-step best practice model
- Documenting the relationship between interrelated budgets and cost terms

Managing Risks and Opportunities

Identifying risks

- Recognizing potential risks and threats
- Evaluating responses

Analyzing risks and opportunities

- Strategies for mitigating risk
- Maximizing opportunities

Monitoring and Controlling Risks

Integrating risks into the management plan

- Assessing risk in the real world
- Evaluating known and unknown risks
- Employing the risk management process

Qualitative and quantitative risk assessment

- Ranking the probability and impact of risk
- Questioning acceptable and unacceptable risk

Working with risk management software

- Demystifying simulation tools
- Generating risk analysis results

Leading the Development of a Program's Systems Engineering

Reviewing systems engineering approaches

- Implementing systems engineering methodology
- Evaluating processes and approaches
- Establishing configuration management
- Managing technical data and interface issues

Developing requirements

- Transferring a functional diagram into a physical architecture
- Analyzing trade studies
- Balancing independent variable costs
- Building traceability matrices

Reviewing Requirements

Requirements analysis

- Clarifying requirements by focus
- Calculating requirements by type
- Prioritizing requirements

Defining traceability and design

- Writing the traceability matrix
- Documenting change requests
- Selecting a design

Testing and Evaluation Processes

Managing a test and evaluation program

- Charting the potential cost of inadequate testing
- Incorporating verification and validation
- Selecting the integrated product team

Critiquing a realistic or operational test

- Categorizing the test/verification tools
- Testing documents vs. testing process

Applying Acquisition Principles to Contracting

- Reviewing contract types to determine the risk and reward
- Aligning negotiation stages for procurement
- Handling contract management issues
- Recognizing staffing issues on sizable contract awards
- Evaluating government-furnished equipment