COURSE SYLLABUS

FPM 511: Managing IT Projects Course (Self-Paced)

This course prepares federal program and project managers to lead IT projects that align technology investments with agency missions. Participants learn to apply Agile and modular acquisition strategies, manage risk, and ensure compliance with key federal IT mandates to deliver innovative and accountable results.

> Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://www.graduateschool.edu/courses/fpm-511-managing-it-projects-course-self-paced



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Course Outline

Module 1: IT Project Management Overview

- Identify key management challenges in federal IT projects.
- Align IT planning with technology cycles and acquisition timelines.
- Understand the IT project lifecycle and its link to agency goals.

Module 2: IT Project Acquisition Planning

- Develop cost-effective IT contracting and acquisition strategies.
- Define requirements and conduct market research for IT procurements.
- Select suitable contract vehicles to meet project and compliance needs.

Module 3: IT Project Management Processes

- Gather and assess user and mission requirements for project scope.
- Apply standard and adaptive IT project management processes.
- Incorporate agile or modular methods to manage rapid change.
- Track progress using dashboards and key project metrics.

Module 4: IT Project Budgeting and Cost Estimating

- Estimate IT costs for hardware, software, and lifecycle support.
- Assess funding impacts on modular and incremental delivery.
- Balance cost, schedule, and scope through trade-off analysis.
- Plan for long-term maintenance and technology refresh costs.

Module 5: IT Project Execution and Systems Engineering

- Apply systems engineering to manage technical integration.

- Use tools for design reviews, traceability, and configuration control.
- Coordinate cross-functional development and testing teams.
- Address issues through structured reviews and change control.

Module 6: IT Project Performance and Quality Assurance

- Implement testing practices to ensure system quality and reliability.
- Establish QA standards and monitor project performance indicators.
- Initiate corrective actions to maintain schedule and cost targets.
- Ensure deliverables meet stakeholder and compliance requirements.

Module 7: IT Project Life Cycle, Operations, and Maintenance

- Plan for lifecycle logistics and post-deployment system support.
- Manage transition from development to operations and training.
- Oversee system monitoring, updates, and maintenance activities.
- Plan for enhancements and decommissioning at end of life.