COURSE SYLLABUS

FPM 512: IT Management, Security, and Performance Assurance Course (Self-Paced)

This course provides federal program and project managers with advanced skills to lead secure, high-performing IT initiatives. Participants learn to manage cybersecurity risks, modernize legacy systems, implement cloud solutions, and apply data-driven strategies to enhance service delivery and mission impact.

> 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-512-it-management-security-and-performance-assurance-course-self-paced

support@graduateschool.edu •
(888) 744-4723

Course Outline

Module 1: Introduction to Federal Information Technology

- Identify core IT domains in federal operations (governance, cybersecurity, data).
- Understand federal IT governance policies and OMB directives.
- Recognize how IT projects align with agency missions and laws.

Module 2: Accessibility

- Explain Section 508 and accessibility requirements for federal IT.
- Use assistive technologies to make IT systems accessible to all users.
- Incorporate accessibility into IT design, development, and testing.

Module 3: Data Management

- Apply federal data management principles and tools.
- Manage the full data lifecycle in compliance with policy.
- Implement data governance frameworks to ensure quality and integrity.
- Leverage databases and analytics for transparency and decision support.

Module 4: Information Management

- Organize and maintain data in federal information systems.
- Use effective techniques for categorizing and retrieving information.
- Ensure accuracy, security, and compliance with records policies.
- Manage information sharing under federal standards.

Module 5: IT Performance Assessment

- Measure IT system effectiveness using performance methods and tools.
- Track KPIs such as uptime, response time, and user satisfaction.
- Conduct evaluations to verify performance and business alignment.
- Recommend improvements to enhance IT value and outcomes.

Module 6: Information Resource Strategy and Planning

- Apply IT planning and evaluation principles to resource strategies.
- Align IT plans with agency missions and strategic goals.
- Use portfolio and capital planning to prioritize IT investments.
- Monitor IT resources with dashboards and governance reviews.

Module 7: Technology Awareness

- Explore emerging technologies such as AI, cloud, and mobile systems.
- Stay current on hardware, software, and telecommunications trends.
- Assess risks, benefits, and readiness for technology adoption.
- Promote innovation through pilot projects and integration strategies.

Module 8: IT Program Management

- Apply program management principles across related IT projects.
- Integrate project schedules, deliverables, and milestones.
- Establish governance and performance monitoring practices.
- Manage risks, dependencies, and stakeholder communications.