COURSE SYLLABUS

Cloud Security Fundamentals for Federal Employees (Self-Paced)

As agencies shift workloads to the cloud, the whole workforce needs a working grasp of how cloud security differs from on-premises security. This foundational course covers cloud service models, FedRAMP's role in federal cloud governance, and the shared responsibility model, then moves through identity and data protection, secure configuration, vulnerability management, and monitoring and incident reporting, closing with a capstone that evaluates a federal cloud service.

> 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/cloud-security-fundamentals-for-federal-employees-self-paced



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Course Outline

Module 1: Federal Cloud Concepts and Service Models

Review cloud computing fundamentals and compare Infrastructure as a Service, Platform as a Service, and Software as a Service models for federal use.

Module 2: Federal Cloud Governance and FedRAMP Fundamentals

Examine how FedRAMP establishes standardized security assessment, authorization, and continuous monitoring requirements for federal cloud services.

Module 3: Shared Responsibility and Agency Accountability

Define security responsibilities across cloud service providers and federal agencies and identify areas of shared accountability.

Module 4: Identity, Access, and Data Protection in the Cloud

Apply identity and access management principles and data protection practices within federal cloud environments.

Module 5: Secure Cloud Configuration and Vulnerability Management

Implement secure configuration, system hardening, vulnerability scanning, and remediation practices for cloud services.

Module 6: Cloud Monitoring, Incident Reporting, and Risk Response

Monitor cloud environments, report security incidents, and coordinate risk response activities between providers and agencies.

Module 7: Evaluating a Federal Cloud Service Capstone

Assess a cloud service for federal use by evaluating its service model, security responsibilities, controls, monitoring capabilities, and risk considerations.