COURSE SYLLABUS

SOC Foundations for Federal Cyber Defense and Operations Course (Self-Paced)

This course prepares you to operate effectively inside a federal Security Operations Center, whether you're new to SOC work or an analyst who wants to solidify the federal standards and terminology behind the job. Unlike generic SOC training, every operational topic—log collection, continuous monitoring, detection engineering, and incident response—is grounded in the statutes, policy memoranda, and technical standards that actually govern federal cyber defense.

> 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/soc-foundations-for-federal-cyber-defense-and-operations-self-paced



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Course Outline

Module 1

Foundations of Federal Cybersecurity & the SOC Mission

Module 2

SOC Team Structure, Roles & Responsibilities

Module 3

Log Collection & Federal Logging Standards

Module 4

Continuous Monitoring & Detection Engineering

Module 5

Incident Response Workflow — NIST SP 800-61 Rev. 3

Module 6

Reporting, Coordination & Compliance

Module 7

SOC Metrics, Tools & Career Pathways