

CompTIA Advanced Security Practitioner (5 Days)

Overview

In this course, you will expand on your knowledge of information security to apply more advanced principles that will keep your organization safe from the many ways it can be threatened. This course prepares students for the CAS-002 exam.

Target Audience

In this course, you will analyze and apply advanced security concepts, principles, and implementations that contribute to enterprise-level security. You will: Manage risk in the enterprise. Integrate computing, communications, and business disciplines in the enterprise. Use research and analysis to secure the enterprise. Integrate advanced authentication and authorization techniques. Implement cryptographic techniques. Implement security controls for hosts. Implement security controls for storage. Analyze network security concepts, components, and architectures, and implement controls. Implement security controls for applications. Integrate hosts, storage, networks, and applications in a secure enterprise architecture. Conduct vulnerability assessments. Conduct incident and emergency responses.

Course Objectives

In this course, you will analyze and apply advanced security concepts, principles, and implementations that contribute to enterprise-level security.

You will:

- Manage risk in the enterprise.
- Integrate computing, communications, and business disciplines in the enterprise.
- Use research and analysis to secure the enterprise.
- Integrate advanced authentication and authorization techniques.
- Implement cryptographic techniques.
- Implement security controls for hosts.
- Implement security controls for storage.
- Analyze network security concepts, components, and architectures, and implement controls.
- Implement security controls for applications.
- Integrate hosts, storage, networks, and applications in a secure enterprise architecture.
- Conduct vulnerability assessments.
- Conduct incident and emergency responses.

Course Outline

- 1 - Enterprise Security Architecture
 - The Basics of Enterprise Security
 - The Enterprise Structure
 - Enterprise Security Requirements
- 2 - Enterprise Security Technology
 - Common Network Security Components and Technologies
 - Communications and Collaboration Security
 - Cryptographic Tools and Techniques
 - Advanced Authentication
- 3 - Enterprise Resource Technology
 - Enterprise Storage Security Issues
 - Distributed, Shared, and Virtualized Computing
 - Cloud Computing and Security
- 4 - Security Design and Solutions
 - Network Security Design
 - Conduct a Security Assessment
 - Host Security
- 5 - Application Security Design
 - Application Security Basics
 - Web Application Security
- 6 - Managing Risk, Security Policies, and Security Procedures
 - Analyze Security Risk
 - Implement Risk Mitigation Strategies and Controls
 - Implement Enterprise-Level Security Policies and Procedures
 - Prepare for Incident Response and Recovery
- 7 - Enterprise Security Integration
 - The Technology Life Cycle
 - Inter-Organizational Change
 - Integrate Enterprise Disciplines to Achieve Secure Solutions
- 8 - Security Research and Analysis
 - Perform an Industry Trends and Impact Analysis
 - Perform an Enterprise Security Analysis