CompTIA Advanced Security Practitioner (CASP+) Exam CAS-004

Days: 5

Prerequisites: This course assumes that you have some applied knowledge of computers, TCP/IP networks, and cybersecurity principles. Knowledge equivalent to the CompTIA Security+ or CySA+ certification is helpful but not necessary.

Audience: You will benefit most from this course if you intend to take a CompTIA CASP+ CAS-004 exam

Description: This course provides the knowledge needed to implement security solutions within an enterprise policy framework, using a vendor-neutral format. This includes GRC and vulnerability management programs, applied cryptography, system and network security, identity management, secure development, and incident response.

OUTLINE:

INTRODUCTION
- Course setup

CHAPTER 1: GOVERNANCE AND COMPLIANCE
- Module A: Security governance
- Module B: Regulatory compliance
- Module C: Standards and frameworks

CHAPTER 2: SECURITY POLICIES
- Module A: Policy design
- Module B: Controls and procedures
- Module C: Training and coordination

CHAPTER 3: RISK MANAGEMENT
- Module A: Risk assessment
- Module B: Risk management strategies

CHAPTER 4: ENTERPRISE RESILIENCE
- Module A: BCDR planning
- Module B: Resilient architecture

CHAPTER 5: THREAT MANAGEMENT
- Module A: Threats and vulnerabilities
- Module B: Threat intelligence sources
- Module C: Applied intelligence

CHAPTER 6: CRYPTOGRAPHIC TECHNIQUES
- Module A: Cryptographic principles

- Module B: Ciphers and hashes

CHAPTER 7: APPLIED CRYPTOGRAPHY
- Module A: Public key infrastructure
- Module B: Cryptographic protocols

CHAPTER 8: AUTHENTICATION AND AUTHORIZATION
- Module A: Access control components
- Module B: Authentication technologies

CHAPTER 9: NETWORK SECURITY ARCHITECTURE
- Module A: Network vulnerabilities
- Module B: Network security infrastructure
- Module C: Secure network configuration

CHAPTER 10: PROTECTING HOSTS AND DATA
- Module A: Host security
- Module B: Data security

CHAPTER 11: THREAT DETECTION AND RESPONSE
- Module A: Threat detection systems
- Module B: Network sensors
- Module C: Data analysis

CHAPTER 12: SPECIALIZED SYSTEM SECURITY
- Module A: Mobile device security
- Module B: Operational technologies

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