

## **CompTia CySA+**

**Duration : 5 Days.**

### **Module 1 – Threat Management 1**

#### ☒ Cybersecurity Analysts

- Cybersecurity Roles and Responsibilities
- Frameworks and Security Controls
- Risk Evaluation
- Penetration Testing Processes

#### ☒ Reconnaissance Techniques

- The Kill Chain
- Open Source Intelligence
- Social Engineering
- Topology Discovery
- Service Discovery
- OS Fingerprinting

### **Module 2 – Threat Management 2**

#### ☒ Security Appliances

- Configuring Firewalls
- Intrusion Detection and Prevention
- Configuring IDS
- Malware Threats
- Configuring Anti-virus Software
- Sysinternals
- Enhanced Mitigation Experience Toolkit

#### ☒ Logging and Analysis

- Packet Capture
- Packet Capture Tools
- Monitoring Tools
- Log Review and SIEM
- SIEM Data Outputs
- SIEM Data Analysis
- Point-in-Time Data Analysis

### **Module 3 – Vulnerability Management**

#### ☒ Managing Vulnerabilities

- Vulnerability Management Requirements
- Asset Inventory
- Data Classification
- Vulnerability Management Processes

- Vulnerability Scanners
- Microsoft Baseline Security Analyzer
- Vulnerability Feeds and SCAP
- Configuring Vulnerability Scans
- Vulnerability Scanning Criteria
- Exploit Frameworks
- ☒ Remediating Vulnerabilities
  - Analyzing Vulnerability Scans
  - Remediation and Change Control
  - Remediating Host Vulnerabilities
  - Remediating Network Vulnerabilities
  - Remediating Virtual Infrastructure Vulnerabilities
- ☒ Secure Software Development
  - Software Development Lifecycle
  - Software Vulnerabilities
  - Software Security Testing
  - Interception Proxies
  - Web Application Firewalls
  - Source Authenticity
  - Reverse Engineering

#### **Module 4 – Cyber Incident Response**

- ☒ Incident Response
  - Incident Response Processes
  - Threat Classification
  - Incident Severity and Prioritization
  - Types of Data
- ☒ Forensics Tools
  - Digital Forensics Investigations
  - Documentation and Forms
  - Digital Forensics Crime Scene
  - Digital Forensics Kits
  - Image Acquisition
  - Password Cracking
  - Analysis Utilities
- ☒ Incident Analysis and Recovery
  - Analysis and Recovery Frameworks
  - Analyzing Network Symptoms
  - Analyzing Host Symptoms
  - Analyzing Data Exfiltration
  - Analyzing Application Symptoms
  - Using Sysinternals

- Containment Techniques
- Eradication Techniques
- Validation Techniques
- Corrective Actions

## **Module 5 – Security Architecture**

### ☒ Secure Network Design

- Network Segmentation
- Blackholes, Sinkholes, and Honeypots
- System Hardening
- Group Policies and MAC
- Endpoint Security

### ☒ Managing Identities and Access

- Network Access Control
- Identity Management
- Identity Security Issues
- Identity Repositories
- Context-based Authentication
- Single Sign On and Federations
- Exploiting Identities
- Exploiting Web Browsers and Applications

### ☒ Security Frameworks and Policies

- Frameworks and Compliance
- Reviewing Security Architecture
- Procedures and Compensating Controls
- Verifications and Quality Control
- Security Policies and Procedures
- Personnel Policies and Training