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**Course Name**

# **CompTIA CySA+Cybersecuti Analyst**

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Information Technology

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## CompTIA CySA+Cybersecuti Analyst

### Course Introduction

The CompTIA CySA+ Cybersecurity Analyst training course is a vendor-neutral credential. The CompTIA CySA+ exam (Exam CS0-001) is an internationally targeted validation of intermediate-level security skills and knowledge.

The course has a technical, “hands-on” focus on IT security analytics.

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## CompTIA CySA+Cybersecuti Analyst

### Target Audience

The training course is designed for IT professionals, specifically those whose function mainly focuses on security analysis, vulnerability analysis, or threat intelligence analysis.

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## CompTIA CySA+Cybersecuti Analyst

### Learning Objectives

- ✓ Threat Management
- ✓ Vulnerability Management
- ✓ Cyber Incident Response
- ✓ Security Architecture and Tool Sets

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## CompTIA CySA+Cybersecuti Analyst

### Course Outline

#### ✓ Day 01

##### **Threat Management**

**Given a scenario, apply environmental reconnaissance techniques using appropriate tools and processes**

##### **Procedures/common tasks:**

- ✓ Topology discovery
- ✓ OS fingerprinting
- ✓ Service discovery
- ✓ Packet capture
- ✓ Log review
- ✓ Router/firewall ACLs review
- ✓ Email harvesting
- ✓ Social media profiling
- ✓ Social engineering
- ✓ DNS harvesting
- ✓ Phishing

##### **Variables:**

- ✓ Wireless vs. wired
- ✓ Virtual vs. physical

- ✓ Internal vs. external
- ✓ On-premises vs. cloud

### **Tools:**

- ✓ NMAP
- ✓ Host scanning
- ✓ Network mapping
- ✓ NETSTAT
- ✓ Packet analyzer
- ✓ IDS/IPS
- ✓ HIDS/NIDS
- ✓ Firewall rule-based and logs
- ✓ Syslog
- ✓ Vulnerability scanner

### **Given a scenario, analyze the results of a network reconnaissance**

#### **Point-in-time data analysis:**

- ✓ Packet analysis
- ✓ Protocol analysis
- ✓ Traffic analysis
- ✓ Netflow analysis
- ✓ Wireless analysis

#### **Data correlation and analytics:**

- ✓ Anomaly analysis
- ✓ Trend analysis
- ✓ Availability analysis
- ✓ Heuristic analysis
- ✓ Behavioral analysis

### **Data output:**

- ✓ Firewall logs
- ✓ Packet captures
- ✓ NMAP scan results
- ✓ Event logs
- ✓ Syslogs
- ✓ IDS report

### **Tools:**

- ✓ SIEM
- ✓ Packet analyzer
- ✓ IDS
- ✓ Resource monitoring tool
- ✓ Netflow analyzer

**Given a network-based threat, implement or recommend the appropriate response and countermeasure**

### **Network segmentation:**

- ✓ System isolation
- ✓ Jump box
- ✓ Honeypot
- ✓ Endpoint security
- ✓ Group policies

### **ACLs:**

- ✓ Sinkhole



## **Hardening:**

- ✓ Mandatory Access Control (MAC)
- ✓ Compensating controls
- ✓ Blocking unused ports/services
- ✓ Patching

## **Network Access Control (NAC):**

- ✓ Time-based
- ✓ Rule-based
- ✓ Role-based
- ✓ Location-based

## **Explain the purpose of practices used to secure a corporate environment**

### **Penetration testing:**

- ✓ Rules of engagement

### **Reverse engineering:**

- ✓ Isolation/sandboxing
- ✓ Hardware
- ✓ Software/malware

### **Training and exercises:**

- ✓ Red team
- ✓ Blue team
- ✓ White team



## **Risk evaluation:**

- ✓ Technical control review
- ✓ Operational control review
- ✓ Technical impact and likelihood

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### Course Outline

#### ✓ Day 02

##### **Vulnerability Management**

**Given a scenario, implement an information security vulnerability management process**

##### **Identification of requirements:**

- ✓ Regulatory environments
- ✓ Corporate policy
- ✓ Data classification
- ✓ Asset inventory

##### **Establish scanning frequency:**

- ✓ Risk appetite
- ✓ Regulatory requirements
- ✓ Technical constraints
- ✓ Workflow

##### **Configure tools to perform scans according to the specification:**

- ✓ Determine scanning criteria
- ✓ Tool updates/plugin-ins

- ✓ Permissions and access
- ✓ Execute scanning

### **Generate reports:**

- ✓ Automated vs. manual distribution

### **Remediation:**

- ✓ Prioritizing
- ✓ Communication/change control
- ✓ Sandboxing/testing
- ✓ Inhibitors to remediation
- ✓ Ongoing scanning and continuous monitoring

### **Given a scenario, analyze the output resulting from a vulnerability scan**

#### **Analyze reports from a vulnerability scan:**

- ✓ Review and interpret scan results
- ✓ Validate results and correlate other data points
- ✓ Compared to best practices or compliance
- ✓ Reconcile results
- ✓ Review related logs and/or other data sources
- ✓ Determine trends
- ✓ Compare and contrast common vulnerabilities found in the following targets within an organization
  - ✓ Servers
  - ✓ Endpoints
  - ✓ Network infrastructure
  - ✓ Network appliances



## Virtual infrastructure:

- ✓ Virtual hosts
- ✓ Virtual networks
- ✓ Management interface
- ✓ Mobile devices
- ✓ Interconnected networks
- ✓ Virtual private networks (VPNs)
- ✓ Industrial Control Systems (ICSs)
- ✓ SCADA devices

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### Course Outline

#### ✓ Day 03

##### **Cyber Incident Response**

**Given a scenario, distinguish threat data or behavior to determine the impact of an incident**

##### **Threat classification:**

- ✓ Known threats vs. unknown threats
- ✓ Zero day
- ✓ Advanced persistent threat
- ✓ Factors contributing to incident severity and prioritization:
- ✓ Scope of impact
- ✓ Types of data
- ✓ Given a scenario, prepare a toolkit and use appropriate forensics tools during an investigation

##### **Forensics kit:**

- ✓ Digital forensics workstation
- ✓ Write blockers
- ✓ Cables
- ✓ Drive adapters
- ✓ Wiped removable media

- ✓ Cameras
- ✓ Crime tape
- ✓ Tamper-proof seals
- ✓ Documentation/forms

### **Forensic investigation suite:**

- ✓ Imaging utilities
- ✓ Analysis utilities
- ✓ Chain of custody
- ✓ Hashing utilities
- ✓ OS and process analysis
- ✓ Mobile device forensics
- ✓ Password crackers
- ✓ Cryptography tools
- ✓ Log viewers

### **Explain the importance of communication during the incident response process**

#### **Stakeholders:**

- ✓ HR
- ✓ Legal
- ✓ Marketing
- ✓ Management

#### **Purpose of communication processes:**

- ✓ Limit communication to trusted parties
- ✓ Disclosure based on regulatory/legislative requirements
- ✓ Prevent inadvertent release of information
- ✓ Secure method of communication

## **Role-based responsibilities:**

- ✓ Technical
- ✓ Management
- ✓ Law enforcement
- ✓ Retain incident response provider

**Given a scenario, analyze common symptoms to select the best course of action to support incident response**

## **Common network-related symptoms:**

- ✓ Bandwidth consumption
- ✓ Beaconing
- ✓ Irregular peer-to-peer communication
- ✓ Rogue devices on the network
- ✓ Scan sweeps
- ✓ Unusual traffic spikes

## **Common host-related symptoms:**

- ✓ Processor consumption
- ✓ Memory consumption
- ✓ Drive capacity consumption
- ✓ Unauthorized software
- ✓ Malicious processes
- ✓ Unauthorized changes
- ✓ Unauthorized privileges
- ✓ Data exfiltration

## **Common application-related symptoms:**

- ✓ Anomalous activity
- ✓ Introduction of new accounts

- ✓ Unexpected output
- ✓ Unexpected outbound communication
- ✓ Service interruption
- ✓ Memory overflows
- ✓ Summarize the incident recovery and post-incident response process

### **Containment techniques:**

- ✓ Segmentation
- ✓ Isolation
- ✓ Removal
- ✓ Reverse engineering

### **Eradication techniques:**

- ✓ Sanitization
- ✓ Reconstruction/reimage
- ✓ Secure disposal

### **Validation:**

- ✓ Patching
- ✓ Permissions
- ✓ Scanning
- ✓ Verify logging/communication to security monitoring

### **Corrective actions:**

- ✓ Lessons learned report
- ✓ Change control process
- ✓ Update the incident response plan
- ✓ Incident summary report

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### Course Outline

#### ✓ Day 04

##### **Security Architecture and Tool Sets**

**Explain the relationship between frameworks, common policies, controls, and procedures**

##### **Regulatory compliance**

##### **Frameworks:**

- ✓ NIST
- ✓ ISO
- ✓ COBIT
- ✓ SABSA
- ✓ TOGAF
- ✓ ITIL

##### **Policies:**

- ✓ Password policy
- ✓ Acceptable use policy
- ✓ Data ownership policy
- ✓ Data retention policy
- ✓ Account management policy

- ✓ Data classification policy

### **Controls:**

- ✓ Control selection based on criteria
- ✓ Organizationally defined parameters
- ✓ Physical controls
- ✓ Logical controls
- ✓ Administrative controls

### **Procedures:**

- ✓ Continuous monitoring
- ✓ Evidence production
- ✓ Patching
- ✓ Compensating control development
- ✓ Control testing procedures
- ✓ Manage exceptions
- ✓ Remediation plans

### **Verifications and quality control:**

- ✓ Audits
- ✓ Evaluations
- ✓ Assessments
- ✓ Maturity model
- ✓ Certification

**Given a scenario, use data to recommend remediation of security issues related to identity and access management**



## **Security issues associated with context-based authentication:**

- ✓ Time
- ✓ Location
- ✓ Frequency
- ✓ Behavioral

## **Security issues associated with identities:**

- ✓ Personnel
- ✓ Endpoints
- ✓ Servers
- ✓ Services
- ✓ Roles
- ✓ Applications

## **Security issues associated with identity repositories:**

- ✓ Directory services
- ✓ TACACS+
- ✓ RADIUS

## **Security issues associated with federation and single sign-on:**

- ✓ Manual vs. automatic provisioning/deprovisioning
- ✓ Self-service password reset

## **Exploits:**

- ✓ Impersonation
- ✓ Man-in-the-middle
- ✓ Session hijack

- ✓ Cross-site scripting
- ✓ Privilege escalation
- ✓ Rootkit

**Given a scenario, review security architecture and make recommendations to implement compensating controls**

### **Security data analytics:**

- ✓ Data aggregation and correlation
- ✓ Trend analysis
- ✓ Historical analysis

### **Manual review:**

- ✓ Firewall log
- ✓ Syslogs
- ✓ Authentication logs
- ✓ Event logs

### **Defense in depth:**

- ✓ Personnel
- ✓ Processes
- ✓ Technologies
- ✓ Other security concepts

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### Course Outline

#### ✓ Day 05

##### **Security Architecture and Tool Sets (continuation)**

**Given a scenario, use application security best practices while participating in the Software Development Life Cycle (SDLC)**

##### **Best practices during software development:**

- ✓ Security requirements definition
- ✓ Security testing phases
- ✓ Manual peer reviews
- ✓ User acceptance testing
- ✓ Stress test application
- ✓ Security regression testing
- ✓ Input validation

##### **Secure coding best practices:**

- ✓ OWASP
- ✓ SANS
- ✓ Center for Internet Security

**Compare and contrast the general purpose and reasons for using various cybersecurity tools and technologies**

## **Preventative:**

- ✓ IPS
- ✓ HIPS
- ✓ Firewall
- ✓ Antivirus
- ✓ Anti-malware
- ✓ EMET
- ✓ Web proxy
- ✓ Web Application Firewall (WAF)

## **Collective:**

- ✓ SIEM
- ✓ Network scanning
- ✓ Vulnerability scanning
- ✓ Packet capture
- ✓ Command line/IP utilities
- ✓ IDS/HIDS

## **Analytical:**

- ✓ Vulnerability scanning
- ✓ Monitoring tools
- ✓ Interception proxy

## **Exploit:**

- ✓ Interception proxy
- ✓ Exploit framework
- ✓ Fuzzers



## Forensics:

- ✓ Forensic suites
- ✓ Hashing
- ✓ Password cracking
- ✓ Imaging

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### Confirmed Sessions

| FROM           | TO             | DURATION | FEES       | LOCATION        |
|----------------|----------------|----------|------------|-----------------|
| Nov. 9, 2026   | Nov. 13, 2026  | 5 days   | 4250.00 \$ | UAE , Abu Dhabi |
| Dec. 21, 2026  | Dec. 25, 2026  | 5 days   | 4250.00 \$ | UAE , Dubai     |
| April 26, 2027 | April 30, 2027 | 5 days   | 4250.00 \$ | UAE , Dubai     |
| July 26, 2027  | July 30, 2027  | 5 days   | 4950.00 \$ | Spain , Madrid  |
| Jan. 24, 2027  | Jan. 28, 2027  | 5 days   | 4250.00 \$ | KSA , Dammam    |

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