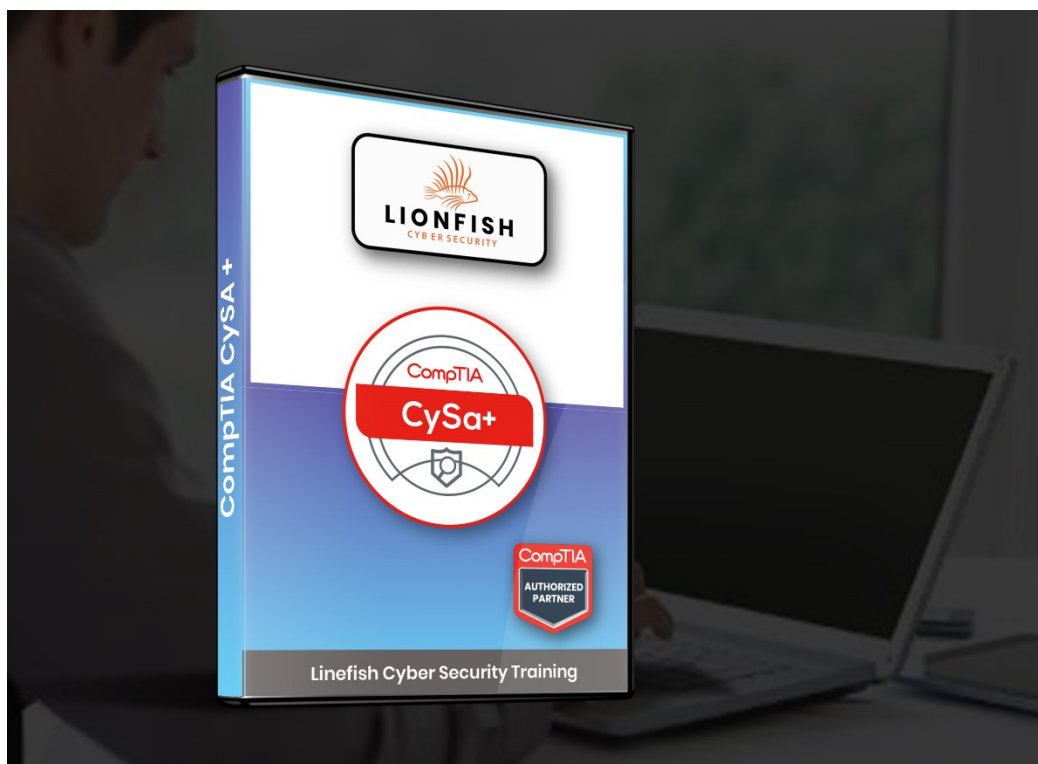


Lionfish Cyber Security Course Syllabus:

CompTIA CySA+ (CS0-001)

Interactive and entertaining talk-show style format presented by industry leading experts.

- 27+ hours of virtual training, practice exams, and study.
- Receive a Certificate of completion
- Presented by highly qualified, industry leading experts
- 12 Months Access (*Unless indicated otherwise*)
- * The CompTIA bundle comes with online practice exams.





Description

CompTIA Cybersecurity Analyst (CySA+) is an IT workforce certification that applies behavioral analytics to networks and devices to prevent, detect and combat cybersecurity threats through continuous security monitoring.

Curriculum Overview

The CompTIA CySA (Cybersecurity Analyst) certification prep course is designed to help prepare candidates to sit for the CySA+ exam, as well as reinforce concepts for work roles such as Systems Security Analyst, Threat Analyst, and Vulnerability Assessment Analysts.

Objectives

- Apply environmental reconnaissance techniques like OS fingerprinting, e-mail harvesting, Netstat, and Syslog
- Analyze the results of network reconnaissance, and recommend or implement countermeasures
- Secure a corporate environment by scanning for vulnerabilities
- Respond to cyber incidents with a forensics toolkit, maintain the chain of custody, and analyze incident severity.

Prerequisites

- Know basic network terminology and functions (such as OSI Model, Topology, Ethernet, Wi-Fi, switches, routers).
- Understand TCP/IP addressing, core protocols, and troubleshooting tools
- Identify network attack strategies and defenses.
- Know the technologies and uses of cryptographic standards and products
- Identify network- and host-based security technologies and practices.
- Describe the standards and products used to enforce security on web and communications technologies.

Target Audience

The CompTIA Cybersecurity Analyst (CySA+) examination is designed for IT security analysts, vulnerability analysts, or threat intelligence analysts. The exam will certify that the successful candidate has the knowledge and skills required to configure and use threat detection tools, perform data analysis, and interpret the results to identify vulnerabilities, threats, and risks to an organization with the end goal of securing and protecting applications and systems within an organization.



Syllabus

| CompTIA CySA+ Cybersecurity Analyst (CS0-001) | |
|---|---------------------------------|
| Episode | Episode Name |
| 1 | Promo |
| 1 | Introduction |
| Chapter 1 - Conducting Reconnaissance | |
| 1 | Thinking Like the Enemy |
| 2 | Tools of the Trade |
| Chapter 2 - Analyzing Reconnaissance Results | |
| 1 | Recon Results: Part 1 |
| 2 | Recon Results: Part 2 |
| 3 | Data Output |
| Chapter 3 - Responding to Network-Based Threats | |
| 1 | Protecting Your Territory |
| 2 | Hardening Strategies |
| Chapter 4 - Securing a Corporate Environment | |
| 1 | Pen Testing |
| 2 | Training |
| 3 | Reverse Engineering |
| 4 | Risk Evaluation |
| Chapter 5 - Vulnerability Management | |
| 1 | Requirements Identification |
| 2 | Scanning |
| 3 | Configuring and Executing Scans |
| 4 | Reporting and Remediating |
| Chapter 6 - Analyzing Vulnerabilities Scan Results | |
| 1 | Common Vulnerabilities: Part 1 |
| 2 | Common Vulnerabilities: Part 2 |
| Chapter 7 - Incident Response | |
| 1 | Incident Response Process |
| 2 | IR Roles and Responsibilities |



Chapter 8 - Preparation Phase

- 1 IR Active Preparation
- 2 Threat Trends

Chapter 9 - Forensic Tools

- 1 Digital Forensics
- 2 Seizure and Acquisitions
- 3 Forensics Acquisition Tools
- 4 Forensics Analysis: Part 1
- 5 Forensics Analysis: Part 2

Chapter 10 - Common Symptoms of Compromise

- 1 Network Symptoms
- 2 Host Symptoms
- 3 Application Symptoms

Chapter 11 - Incident Recovery and Post-Incident Response Process

- 1 Moving Forward: Part 1
- 2 Moving Forward: Part 2

Chapter 12 - Frameworks, Common Policies, Controls, and Procedures

- 1 Frameworks
- 2 Policies
- 3 Controls & Procedures
- 4 Verifications

Chapter 13 - Identity and Access Management

- 1 Context-Based Authentication
- 2 Identities
- 3 Managing Identities
- 4 Exploits

Chapter 14 - Defense Strategies

- 1 Data Analytics
- 2 Defense in Depth

Chapter 15 - Software Development Life Cycle (SDLC)

- 1 Secure Software Development
Best Coding Practices

Chapter 16 - Tools and Technologies

| | |
|---|----------------------------|
| 1 | Preventative Tools: Part 1 |
| 2 | Preventative Tools: Part 2 |
| 3 | Collective Tools |
| 4 | Vulnerability Scanning |
| 5 | Packet Capture |
| 6 | Connectivity Tools |
| 7 | Pen Testing Tools |

Prepare for the CompTIA CySA+ exam with the excellent TotalTester practice tests. The 350+ questions mirror the questions you'll see on the real exam; enabling you to practice on test questions and assess your skill and knowledge of the material. Get certified the best way, the TotalTester way!

- Applies to the current CS0-001 exam
- Includes over 350 questions
- Requires Windows, macOS, Chrome OS, or Linux (iOS and Android not supported)
- Single-user license

Question Pool Sources

- *CompTIA CySA+ Cybersecurity Analyst Certification All-in-One Exam Guide* by Fernando J. Maymí and Brent Chapman
- *CompTIA CySA+ Cybersecurity Analyst Certification Practice Exams* by Jeff T. Parker

TotalTester Features

TotalTester for the CompTIA CySA+ certification exam includes **350+ multiple-choice questions** that mirror the questions on the exam. Prepare for CompTIA's multiple-choice-based certification exam questions.

Testing Modes

- Practice Mode: tests with hints and answer explanations
- Exam Mode: just like the real thing, no help, just you and the questions
- Results graded by topic for easy review

Customized Tests

- Filter questions by exam objectives
- Choose whether or not to include hints and answer explanations
- Choose the number of questions on your practice test
- Set your own time limit



Test History

- See the date you took each test
- View final score for each test
- See number of questions answered correctly objective
- Review each question, see your answer, the correct answer, and explanations

Sample Certificate when you have completed each course.



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Lionfish Cyber Security has partnered with Instructor Mike Myers & Total Seminars to bring you best in class training, Labs and Practice exams.