Training: EC-Council
CSA - Certified SOC Analyst v2

TRAINING GOALS:

The Certified SOC Analyst training program covers a range of topics, including common attack vectors, the use of security tools and technologies, security information and event management (SIEM), incident response processes, coordination, and the development of a SOC. Students gain proficiency in centralized log management (CLM), incident triaging, recognition and investigation of indicators of compromise (IoCs) and the cyber kill chain, enabling them to respond proactively to potential threats. They also gain the ability to recognize emerging threat patterns, develop correlation rules, and create effective reports that help organizations maintain a robust security posture. Students also learn to leverage AI-enabled tools and platforms to enhance SIEM capabilities, behavior analytics, and alert prioritization, and automate threat detection and threat hunting using solutions like Splunk AI, Elastic AI, Copilot, ChatGPT, and PowerShell AI.

Completing the EC-Council C|SA course will equip students with the ability to run a robust SOC with enhanced incident detection and response capabilities.

What you will learn

- Acquire a comprehensive knowledge of SOC processes, procedures, technologies, and workflows.
- Develop a foundational and advanced understanding of security threats, attacks, vulnerabilities, attacker behavior, and the cyber kill chain.
- Learn to identify attacker tools, tactics, and procedures to recognize (IoCs) for both active and future investigations.
- Gain the ability to monitor and analyze logs and alerts from various technologies across

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multiple platforms, including IDS/IPS, endpoint protection, servers, and workstations.

- Understand the CLM process and its significance in security operations.
- Acquire skills in collecting, monitoring, and analyzing security events and logs.
- Attain extensive knowledge and hands-on experience in SIEM.
- Learn how to administer SIEM solutions like Splunk, AlienVault, OSSIM, and the ELK Stack.
- Understand the architecture, implementation, and fine-tuning of SIEM solutions for optimal performance.
- Gain practical experience in the SIEM use case development process.
- Develop threat detection cases (correlation rules) and create comprehensive reports.
- Learn about widely used SIEM use cases across different deployments.
- Plan, organize, and execute threat monitoring and analysis within an enterprise environment.
- Acquire skills to monitor emerging threat patterns and perform security threat analysis.
- Gain hands-on experience in the alert triaging process for effective threat management.
- Learn how to escalate incidents to the appropriate teams for further investigation and remediation.
- Use service desk ticketing systems for efficient incident tracking and resolution.
- Develop the ability to prepare detailed briefings and reports outlining analysis methodologies and results.
- Learn how to integrate threat intelligence into SIEM systems for enhanced incident detection and response.
- Understand how to leverage constantly evolving sources of threat intelligence.
- Gain knowledge of the incident response process and best practices for managing security incidents.
- Develop a solid understanding of SOC and incident response team (IRT) collaboration for improved incident management and response.
- Assist in responding to and investigating security incidents with forensic analysis techniques.
- Gain specialized knowledge in cloud-based threat detection and how to adapt techniques for cloud environments.
- Engage in proactive threat detection by participating in threat-hunting exercises.
- Develop skills in creating SIEM dashboards, generating SOC reports, and building effective correlation rules for advanced threat detection.
- Acquire hands-on experience in malware analysis techniques.
- Explore how AI/ML technologies can be leveraged to improve threat detection and response in SOC operations.

Who CSA v2 is for:

- Any cybersecurity professional looking to expand their knowledge in the field of defensive

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security.

- Junior SOC Security Analyst
- SOC Analyst
- Security Incident Response Analyst
- SOC Threat Analyst
- SOC Analysts (L1, L2, and L3)
- Info Security Analyst 3

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CONSPECT:

- Module 1 - Security Operations and Management
  - Learn how a SOC enhances an organization’s security management to maintain a strong security posture, focusing on the critical roles of people, technology, and processes in its operations.
- Module 2 - Understanding Cyber Threats, IoCs, and Attack Methodology
  - Learn various cyberattacks, their IoCs, and the attack tactics, techniques, and procedures (TTPs) cybercriminals use.
- Module 3 - Log Management
  - Learn log management in SIEM, including how logs are generated, stored, centrally collected, normalized, and correlated across systems.
- Module 4 - Incident Detection and Triage
  - Learn SIEM fundamentals, including its capabilities, deployment strategies, use case development, and how it helps SOC analysts detect anomalies, triage alerts, and report incidents.
- Module 5 - Proactive Threat Detection
  - Learn the importance of threat intelligence and threat hunting for SOC analysts and how its integration with SIEM helps reduce false positives and enables faster, more accurate alert triage.
- Module 6 - Incident Response
  - Learn the stages of incident response and how the IRT collaborates with SOC to handle and respond to escalated incidents.
- Module 7 - Forensic Investigation and Malware Analysis
  - Learn the importance of forensic investigation and malware analysis in SOC operations to understand attack methods, identify IoCs, and enhance future defenses.
- Module 8 - SOC for Cloud Environments

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- Learn the SOC processes in cloud environments, covering monitoring, incident detection, automated response, and security in AWS, Azure, and GCP using cloud-native tools.

REQUIREMENTS:

A minimum of one year of professional experience in network or security administration (e.g., networking, IT security).

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by EC-Council (course completion). This course will help prepare you also for the CSA v2 certification exam.

CSA v2 exam details:

- Exam Code : 312-39
- Number of Questions : 100
- Duration : 3 hours
- Test Format : Multiple Choice

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TRAINER:

Certified EC-Council Instructor (CEI)

ADDITIONAL INFORMATION:

The training materials include official EC-Council electronic courseware, 180-day access to iLabs, and an exam voucher.

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