Certified Cybersecurity Operations Analyst™ (CCOA)

An ISACA CERTIFICATION

TRAINING DATASHEET

ISACA's Certified Cybersecurity Operations Analyst™ (CCOA™) certification focuses on the technical skills to evaluate threats, identify vulnerabilities, and recommend countermeasures to prevent cyber incidents. As emerging technologies like automated systems using AI evolve, the role of the cyber analyst will only become more critical in protecting digital ecosystems. Analysts specialize in understanding the what, where and how behind cybersecurity incidents. By identifying patterns, anomalies and indicators of compromise, you become the eyes and earsof your organization's defence.

COURSE SYPNOSIS

Upon completing the course, practitioners will have gained a comprehensive understanding of essential technology concepts, cybersecurity principles, and risk management strategies.They will be equipped with a strong footing of knowledge and the skills necessary to analyse and mitigate cybersecurity risk, including risk associated with adversroboto tactics and techniques.

Overall,the course empowers practitioners with the necessary tools and knowledge to navigate the complex landscape of cybersecurity, enabling them to safeguard assets and mitigate emerging threats effectively. CCOA is administered through a hybrid exam that assesses a candidate's knowledge and skills using a blend of traditional multiple-choice and performance-based questions.

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PRE-COURSE READING MATERIALS

There are no pre-course reading materials needed for this course although candidates are encouraged to review the CCOA Review Manual prior to attending the course.

TARGET AUDIENCE

The target audience for this course are professionals looking to validate and advance their practical, hands-on skills in security operations. This program is specifically tailored for individuals involved in assessing, monitoring, and responding to cyber threats within an enterprise's information security program.

This program is ideal for individuals who meet the following criteria:

- Cybersecurity Analysts
- Information Security Analysts
- SOC Analysts
- Vulnerability Analysts
- Incident Response Analysts

HIGH-LEVEL OUTLINE

The CCOA Course comprises the following domains:

- Technology Essentials (25%)
- Cybersecurity Principles and Risk (20%)
- Adversarial Tactics, Techniques, and Procedures (10%)
- Incident Detection and Response (34%)
- Securing Assets (11%)

CCOA DETAILED COURSE OUTLINE

TECHNOLOGY ESSENTIALS

- Networking-Cloud, Computer/ Devices, Ports and Protocols, Network Access, Network Tools, Network Technology, Segmentation
- Systems/Endpoint –Databases, Command Line, Containerization/ Virtualization, Middleware, Operating Systems
- Applications -API, Automated Deployment, Cloud Applications, Scripting/ Coding

CYBERSECURITY PRINCIPLES AND RISK

- Cybersecurity Principles –Compliance, Cybersecurity Objectives, Governance, Risk Management, Roles and Responsibilities, Cybersecurity Models
- Cybersecurity Risk-Application, Cloud Technology, Data, Network, Supply Chain, System/Endpoint, Web Application

ADVERSARIAL TACTICS, TECHNIQUES, AND PROCEDURES

- Threat Landscape -AttackVectors, Threat Actors/Agents, Intelligence Sources
- Means and Methods -Attack Types, Cyber Attack Stages, Exploit Techniques, Penetration Testing

INCIDENT DETECTION AND RESPONSE

- Incident Detection
- Incident Response

SECURING ASSETS

- Controls -Contingency Planning, Controls and Techniques, Identity and Access Management, Industry Best Practices, Guidance, Frameworks and Standards
- Vulnerability Management – Assessment, Identification, Remediation, Tracking

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DURATION

5 Days Instructor Led Classroom Training

COURSE OBJECTIVES

By completing this course, the following Learning Outcomes will be achieved:

- Implement security programmes by performing administrative and technical processes
- Revise security administration plans and personnel to keep up with emerging cybersecurity policies and security threats
- Formulate the installation of hardware, software and operating systems to mitigate security threats
- Oversee the conformance of security administrative processes according to internal protocols
- Set up access control mechanisms to align with organizational policies and procedures, key principles of user access management and control
- Promote access control awareness and understanding of implications across the organization
- Establish security monitoring and control over user access activities
- Comply with organizational standards and procedures when allocating role-based access requests
- Diagnose security breaches and recommend follow-up actions

CCOA CERTIFICATION EXAM

Candidates who successfully completed the course and pass the exam will be allowed to apply for formal CCOA accreditation from ISACA.

- Complex 115 Multiple Choice Questions.
- 25 performance based questions.
- 4 hours duration.
- Scaled Score between 200 to 800 Marks.
- 450 Marks required to pass.

Additional Information

- Certificate of Attendance from Sapience Consulting: Upon meeting at least 75% attendance and passing the assessment(s), participants will receive a Certificate of Attendance from Sapience Consulting.

The following information are relevant for candidates who are seeking SSG-funding support for the course:

- Assessments
  Candidates must pass all prescribed tests/assessments and attain 100% competency to be eligible for funding support.
  Mode of Assessment: Written Assessment, Case Study Assessment.

- Statement of Attainment (SOA) from SkillsFuture Singapore:
  After passing the assessment(s), you'll receive a SkillsFuture Singapore Statement of Attainment (SOA) certifying that you have achieved the following Competency Standard(s): ICT-OUS-402-1.1 –Security Administration.

CONTACT US

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