

SkillNexa Cybersecurity Academy

Cybersecurity Specialist

Advanced Cyber Defense, Cloud Security & Threat Intelligence

Program Level: Specialist

Total Duration: 96 Hours

Delivery: Cohort-Based + Instructor-Led + Hands-On Labs

Pathway: Foundation → Practitioner → Specialist

Program Goal

Students transition from cybersecurity practitioners to advanced security analysts.

Students learn how cybersecurity professionals:

- **Monitor enterprise environments**
 - **Detect security threats**
 - **Investigate cyber incidents**
 - **Secure cloud environments**
 - **Analyze attacker behavior**
 - **Conduct cybersecurity research**
 - **Security operations**
 - **Incident response**
 - **Digital forensics**
 - **Cloud security**
 - **Threat intelligence**
 - **Cybersecurity research**
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PROGRAM STRUCTURE

Module	Topic	Hours
Module 1	Security Operations Center (SOC)	24
Module 2	Digital Forensics & Incident Investigation	20

Module 3	Cloud Security Fundamentals	20
Module 4	Malware & Threat Intelligence	20
Module 5	Cybersecurity Research & Presentation	12
Total		96

Course Curriculum

MODULE 1 — SECURITY OPERATIONS CENTER (SOC)

1.1 Security Operations Center Fundamentals

LAB 1.1

1.2 Security Monitoring

LAB 1.2

1.3 Log Analysis

LAB 1.3

1.4 SIEM Fundamentals

LAB 1.4

1.5 Incident Response

LAB 1.5

1.6 SOC Investigation Project

MODULE 1 ASSESSMENT

MODULE 2 — DIGITAL FORENSICS & INCIDENT INVESTIGATION

2.1 Introduction to Digital Forensics

2.2 Evidence & Chain of Custody

LAB 2.2

2.3 File & System Analysis

LAB 2.3

2.4 Network Investigation

LAB 2.4

2.5 Incident Timeline

LAB 2.5

2.6 Digital Forensics Project

MODULE 2 ASSESSMENT

MODULE 3 — CLOUD SECURITY FUNDAMENTALS

3.1 Cloud Computing Fundamentals

LAB 3.1

3.2 Cloud Identity & Access Management

LAB 3.2

3.3 Cloud Security Threats

LAB 3.3

3.4 Secure Cloud Architecture

LAB 3.4

3.5 Cloud Security Project

MODULE 3 ASSESSMENT

MODULE 4 — MALWARE & THREAT INTELLIGENCE

4.1 Malware Fundamentals

LAB 4.1 — Malware Classification

4.2 Cyber Attack Techniques

LAB 4.2

4.3 Threat Actors

LAB 4.3

4.4 Threat Intelligence

LAB 4.4

4.5 Threat Intelligence Project

MODULE 4 ASSESSMENT

MODULE 5 — CYBERSECURITY RESEARCH & PRESENTATION

5.1 Cybersecurity Research Fundamentals

LAB 5.1

5.2 Reading Cybersecurity Research

LAB 5.2

5.3 Cybersecurity Research Project

5.4 Technical Communication

LAB 5.4

5.5 Cybersecurity Research Showcase

MODULE 5 ASSESSMENT

FINAL ASSESSMENT