

Security Analyst Certificate

Defend organizations from cyber threats — network security, ethical hacking, incident response and digital forensics.

Certificate

10 Courses

420 hours

100% Online

PROGRAM OVERVIEW

The Security Analyst Certificate builds the practical, hands-on skills needed to monitor, defend and respond to security threats across modern IT environments.

Delivered 100% online with cloud-based virtual labs, you will work through realistic scenarios — network monitoring, intrusion detection, ethical hacking, incident response and digital forensics — that mirror the daily work of a security analyst.

WHAT YOU WILL LEARN

- Secure operating systems, networks and cloud environments
- Apply cybersecurity frameworks and controls (NIST, ISO 27001)
- Configure firewalls, VPNs and IDS/IPS systems
- Perform ethical hacking and penetration testing
- Secure ICS/SCADA and IoT environments
- Run incident response and digital forensic investigations
- Automate security tasks with Python
- Manage identity and access (IAM)

CURRICULUM

First Semester

SECA 101	Cloud Computing	42 h
SECA 102	Operating Systems Fundamentals	42 h
SECA 103	Computer Networks Fundamentals	42 h
SECA 104	Introduction to Cybersecurity	42 h
SECA 105	Introduction to Programming	42 h

Second Semester

SECA 201	Network Security	42 h
SECA 202	Security Operations, Monitoring and Architecture	42 h
SECA 203	Ethical Hacking	42 h
SECA 204	Industrial Control Systems (ICS) and IoT Security	42 h
SECA 205	Incident Response and Digital Forensics	42 h

CAREER PATHS

- Security Analyst
- SOC Analyst (Tier 1)
- Incident Response Analyst
- Network Security Analyst
- Vulnerability Analyst
- Junior Penetration Tester

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