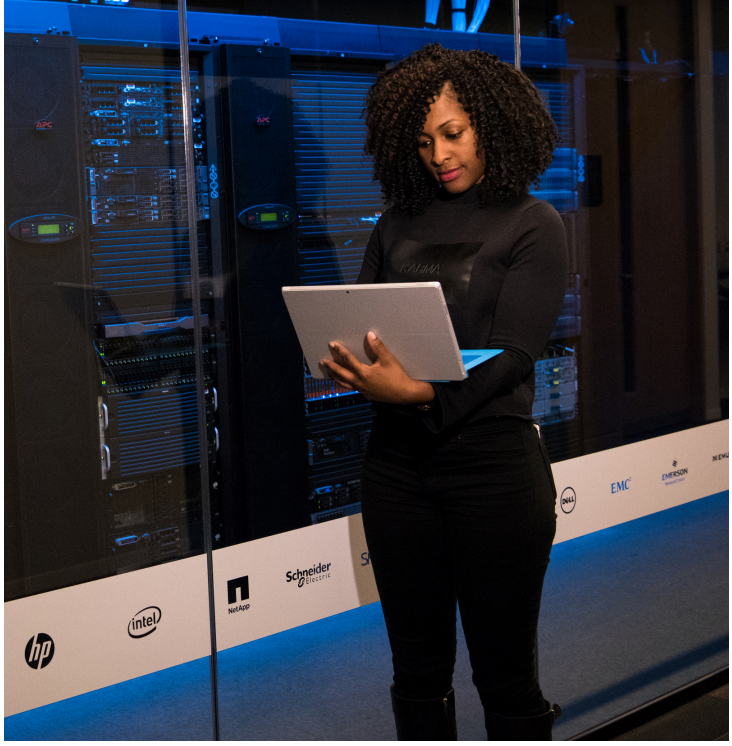
# INFOSEC CERTIFIED CYBER SECURITY SPECIALIST (CCSS)

In the ever evolving cybersecurity workspace, skills and resilience are essential. Become a certified Cyber Security Specialist through Infosec Academy and master implementation, auditing, and management of controls to protect valuable information and meet global expectations with confidence.




## Course overview:

A comprehensive foundational program for professionals transitioning into cybersecurity or consolidating their existing knowledge. The curriculum covers network security, incident response, digital forensics, security architecture, and compliance frameworks. Participants gain practical skills and strategic understanding, earning industry-recognized credentials while preparing to operate effectively within modern organizational cybersecurity environments.

## Infosec Certified Cyber Security Specialist (CCSS) is designed for:

- Professionals transitioning into cybersecurity People from IT, networking, or related fields who want to move into cybersecurity roles.
- Early-career cybersecurity practitioners Those with some foundational knowledge who want to consolidate and formalize their skills with industry-recognized credentials.
- IT staff seeking broader security expertise System administrators, network engineers, or support staff who need to understand security fundamentals across infrastructure, risk management, and incident response.
- Compliance and governance professionals Individuals working in risk, audit, or compliance who need technical grounding in cybersecurity to complement their governance responsibilities.
- Organizations building internal capacity Companies aiming to upskill staff to strengthen their defense posture and align with standards like ISO/IEC 27001, NIST CSF, and CIS Controls.

# TRAINING PROGRAM DETAILS

**Day 1**

Cyber Security and Network Security Fundamentals Introduction to Cybersecurity: Principles of confidentiality, integrity, availability (CIA triad). Concepts of network security, including firewalls, VPNs, IDS/IPS, and network segmentation
Cyber Security Architure:
Models for Business profiling Securing product and Services Security in Suplier and Thirdparty environments Hands-on
Lab: Group discussion on Defense in Depth Security Controls

**Day 2**

Cyber Security Risk Management: Identifying, analyzing, evaluating, and addressing organization's Cyber Security threats Risk Management Frameworks Cyber Risk Insurance Compliance and Governance: Understanding regulatory requirements (ISO/IEC 27001:2022, NIST CSF, CIS Controls) and how to implement governance frameworks to ensure compliance Hands-on
Lab: Develop Risk Register and Guidance on creation of Information Security Policies, standards and guidelines

**Day 3**

Cyber Security Prevent Infrastructure Security: Servers, endpoints, wireless, cloud environments. System Hardening & Patch Management: Baseline configurations, CIS Benchmarks. Secure Authentication & Access Control: MFA, IAM, PAM basics. Hands-on
Lab: Configure enterprise Firewalls and implement secure baseline using CIS Benchmarks Cyber Security Defense Incident Response Lifecycle: Preparation, detection, containment, recovery. Digital Forensics Basics: Chain of custody, evidence acquisition, log analysis. SOC & SIEM Operations: Use of SIEM solution for monitoring. Business Continuity & Disaster Recovery: Crisis management, backup planning. Hands-on
Lab: Simulated incident response & log collection and analysis investigation (Use Wazuh/Elastic SIEM)

**Day 4**

Cyber Security Assurance Vulnerability Management: Scanning tools (Nessus, OpenVAS), CVSS scoring. Penetration Testing Basics: Reconnaissance, scanning, exploitation. Secure Application Development: OWASP Top 10 threats, SDLC security. Practical Case Study: Reviewing insecure code snippets. Hands-on
Lab: Run vulnerability scanning tests and formal Reporting & exploit a test system

**Day 5**

Cyber Security Strategy and Governance Strategy Development: Defining vision, risk management, aligning with business objectives, and Tanzania's regulatory landscape. Policy & Oversight – Designing policies, governance structures, KPIs, compliance monitoring, and board-level reporting Hands-on
Lab: Case studies and simulations to draft strategies and governance frameworks