



NQF Level 5 | MICT SETA

Cybersecurity Analyst

Protect networks, computer systems and information assets from malicious attacks and threats. Assess and mitigate risks, identify vulnerabilities, and implement effective security solutions while ensuring legal compliance in the working environment.

173

Credits

12

Months

NQF 5

Level



Qualification Overview

The purpose of this qualification is to prepare a learner to operate as a Cybersecurity Analyst.

Cybersecurity Analysts apply the practice of protecting assets such as networks, computer systems and information assets from malicious attacks and threats. They assess and mitigate risks and potential intrusions and identify risks and vulnerabilities. They study existing techniques for managing security issues and maintaining the security of information and systems in the working environment, ensuring legal compliance.

On completion of this qualification, the learner will be able to demonstrate an understanding of and how to investigate cybersecurity issues and challenges as they affect the legal compliance, communities, society, the ICT sector, and the economy. The learner will understand how cybercrime can affect businesses causing disruption, how to respond effectively to incidences such as vulnerabilities testing and threats and how to analyse their consequences. The learner also evaluates efficient design of efficient security solutions and ensures compliance.

Learning Outcomes

A qualified learner will be able to:

-  Demonstrate knowledge and understanding of cybersecurity concepts
-  Investigate how cybersecurity affects legal compliance and solidarity in companies and communities
-  Assess risk to assets and evaluate current cybersecurity protection measures



Implement detection, protection and prevention systems and respond to breaches or incidences

Modules and Unit Standards

Module 1: Introduction to Cybersecurity & Governance

- Introduction to Cybersecurity
- Fundamentals of Network Security and Defence
- Cybersecurity and Cyber Threats and Attacks
- Introduction to Cybersecurity Governance, Legislation and Ethics

Module 2: Foundational Tech & Analytical Skills

- Fundamentals of Design Thinking and Innovation
- Logical Thinking and Basic Calculations
- Computers, Devices and Computing Systems
- Data and Database Vulnerabilities
- Introduction to 4IR and Future Skills

Module 3: Practical Security Implementation & Mitigation

- Ensure Compliance in terms of Legal Cybersecurity Requirements and National and International Standards
- Assess Risks and Vulnerabilities and Current Security Measures
- Implement Protection, Prevention and Detection Measures to Mitigate Risk, Violations and Vulnerabilities
- Apply Logical Thinking and Maths
- Apply Basic Scriptwriting for Cybersecurity Toolsets
- Access and Visualise Structured Data Using Spreadsheets
- Apply Design Thinking Methodologies
- Function Ethically and Effectively as a Member of a Multidisciplinary Team

Module 4: Work Experience & Incident Response

- Compliance with Legal Cybersecurity Requirements Processes
- Cybersecurity Risk Assessment and Mitigation Processes
- Cybersecurity Detection, Protection and Prevention Processes

Minimum Requirements

 NQF Level 3 Qualification.

Qualification Details

SETA	MICT SETA
NQF Level	Level 5
Credits	173 Credits
Duration	12 Months
SAQA ID	118986

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Career Opportunities

-  Cybersecurity Analyst
-  ICT Security Specialist
-  Network Security Analyst
-  Information Security Officer
-  Security Operations Centre (SOC) Analyst
-  Vulnerability Analyst

Need Help?

Contact our qualification specialists for guidance.

help@speccon.co.za

Related Qualifications

Explore other MICT SETA qualifications



NQF Level 4

IT Systems Development

Foundational programming and systems development skills.



NQF Level 6

Business Analysis

Advanced business analysis and requirements management.



NQF Level 6

Software Engineer

Advanced software engineering and development practices.



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