

PROGRAMME TITLE	NQF	SAQA ID	CREDITS
Occupational Certificate: Cybersecurity Analyst	5	118986	173

DESCRIPTION

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.

CAREER FIELDS

With this qualification, successful learners could pursue a career as a:

- Security Engineer
- Incidence Response
- Management and Administration
- Testing and Hacking

PROGRAMME OUTLINE

Knowledge Modules:

- 252901-001-00-KM-01 Introduction to Cybersecurity, Level 4, 8 Credits.
- 252901-001-00-KM-02 Fundamentals of Network Security and Defence, Level 5, 12 Credits.
- 252901-001-00-KM-03 Cybersecurity and Cyber Threats and Attacks, Level 5, 12 Credits.
- 252901-001-00-KM-04 Introduction to Cybersecurity Governance, Legislation and Ethics Level 4, 4 Credits.
- 252901-001-00-KM-05 Fundamentals of Design Thinking and Innovation, Level 4, 1 Credit.
- 252901-001-00-KM-06 Logical Thinking and Basic Calculations, Level 4, 3 Credits.
- 252901-001-00-KM-07 Computers, Devices and Computing Systems, Level 4, 6 Credits.
- 252901-001-00-KM-08 Data and Database Vulnerabilities, Level 4, 3 Credits.
- 252901-001-00-KM-09 Introduction to 4IR and Future Skills, Level 4, 4 Credits.

Total number of credits for Knowledge Modules: 53

Practical Skill Modules

- 252901-001-00-PM-01 Ensure Compliance in terms of Legal Cybersecurity Requirements and National and International Standards, Level 5, 4 Credits.
- 252901-001-00-PM-02 Assess Risks and Vulnerabilities and Current Security Measures, Level 5, 20 Credits.
- 252901-001-00-PM-03 Implement Protection, Prevention and Detection Measures to Mitigate Risk, Violations and Vulnerabilities, Level 5, 20 Credits.
- 252901-001-00-PM-04 Apply Logical Thinking and Maths, Level 4, 6 Credits.
- 252901-001-00-PM-05 Apply Basic Scriptwriting for Cybersecurity Toolsets, Level 4, 4 Credits.
- 252901-001-00-PM-06 Access and Visualise Structured Data Using Spreadsheets, Level 4, 5 Credits.
- 252901-001-00-PM-07 Apply Design Thinking Methodologies, Level 4, 4 Credits.
- 252901-001-00-PM-08 Function Ethically and Effectively as a Member of a Multidisciplinary Team, Level 4, 5 Credits.

Total number of credits for Practical Skill Modules: 68

Work Experience Modules

- 252901-001-00-WM-01 Compliance with Legal Cybersecurity Requirements, Level 5, 12 Credits.
- 252901-001-00-WM-02 Cybersecurity Risk Assessment and Mitigation, Level 5, 20 Credits.
- 252901-001-00-WM-03 Cybersecurity Detection, Protection and Prevention Processes, Level 5, 20 Credits.

Total number of credits for Work Experience Modules: 52

TYPE OF PROGRAMME

The programme duration is 2 years on a full-time basis. Tuition is face to face and is scheduled per campus. Programmes are offered during the week on a full-time and part-time basis. Part-time tuition is scheduled as per the stipulated planner.

ADMISSION REQUIREMENTS

The minimum entry requirement for this qualification is:

- NQF Level 4 qualification



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LEARNER MATERIAL

Prescribed textbook lists will be provided by the academic department at your campus. Students will receive electronic versions of the study guides for this programme.

PRICING

Enquire at the Berea College of Technology campus for a current programme pricelist.

ADDITIONAL COSTS

Students must make provision for additional items such as textbooks, stationery, supplementary examinations, research costs and printing of study guides etc.

EXAMINATION AUTHORITY

In terms of the Skills Development Act, 1998 (Act 97 of 1998), the QCTO accredits assessment centres to conduct the External Integrated Summative Assessment (EISA) (link to EISA information brochure PDF) for specified occupational qualifications, part-qualifications or trades recorded on the National Learners' Records Database (NLRD) but without an associated occupational qualification.

Integrated Assessment

Integrated Formative Assessment: The skills development provider will use the curriculum to guide them on the stipulated internal assessment criteria and weighting. They will also apply the scope of practical skills and applied knowledge as stipulated by the internal assessment criteria. This formative assessment together with work experience leads to entrance in the integrated external summative assessment.

Integrated Summative Assessment: An external integrated summative assessment, conducted through the relevant QCTO Assessment Quality Partner is required for the issuing of this qualification. The external integrated summative assessment will focus on the exit level outcomes and associated assessment criteria. The assessment will be conducted through written assessment and the evaluation of practical tasks at decentralised approved assessment sites by a panel of assessors evaluated by assessor(s) registered with the AQP within a period of 1 day.

EISA is a single, national assessment which leads to competent learners being awarded Occupational Certificates. It is an integral and critical component of QCTO's quality assurance system, as it ensures that the assessment of occupational qualifications, part-qualifications and trades is standardised, consistent and credible. Qualifying for External Assessment: To qualify for an external assessment, learners must provide proof of completion of all required knowledge and practical modules by means of statements of results and a record of completed work experience.

CERTIFICATION

On successful completion of the programme, the student will receive a statement of result from Berea College of Technology and upon meeting the EISA requirements, receive an Occupational Certificate: Cybersecurity Analyst from the QCTO.

ARTICULATION

This qualification provides opportunities for horizontal and vertical articulation options.

Horizontal Articulation:

- Higher Certificate in Computer Forensics, NQF Level 05.

Vertical Articulation:

- Advanced Certificate in Information Security, NQF Level 06.

FURTHER STUDIES

Please enquire at the nearest Berea College of Technology campus for the prospectus containing post-certificate studies. Admission to further your studies at a different institution remains the prerogative of each institution and its academic council.



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DISCLAIMER

The information contained in this fact sheet is accurate at the time of printing. However, factors beyond Berea College of Technology control (such as environmental, regulatory or technical changes) may cause the contents of this fact sheet or of the programme to change. In the event of any such change, Berea College of Technology will formally notify current learners. All possible measures will be taken to minimise inconvenience to learners.

Name of Learner: I....., hereby acknowledge that I understand the information stated in this document and fully comprehend the specifics explained above pertaining to this qualification.

Signature of Learner:

Name of Legal Guardian:
(if applicable)

Signature:

Name of Sales Consultant:

Signature:

Name of Head of Department:

Signature:

Date:

* Please note the original signed copy should be kept on the learner record file.

