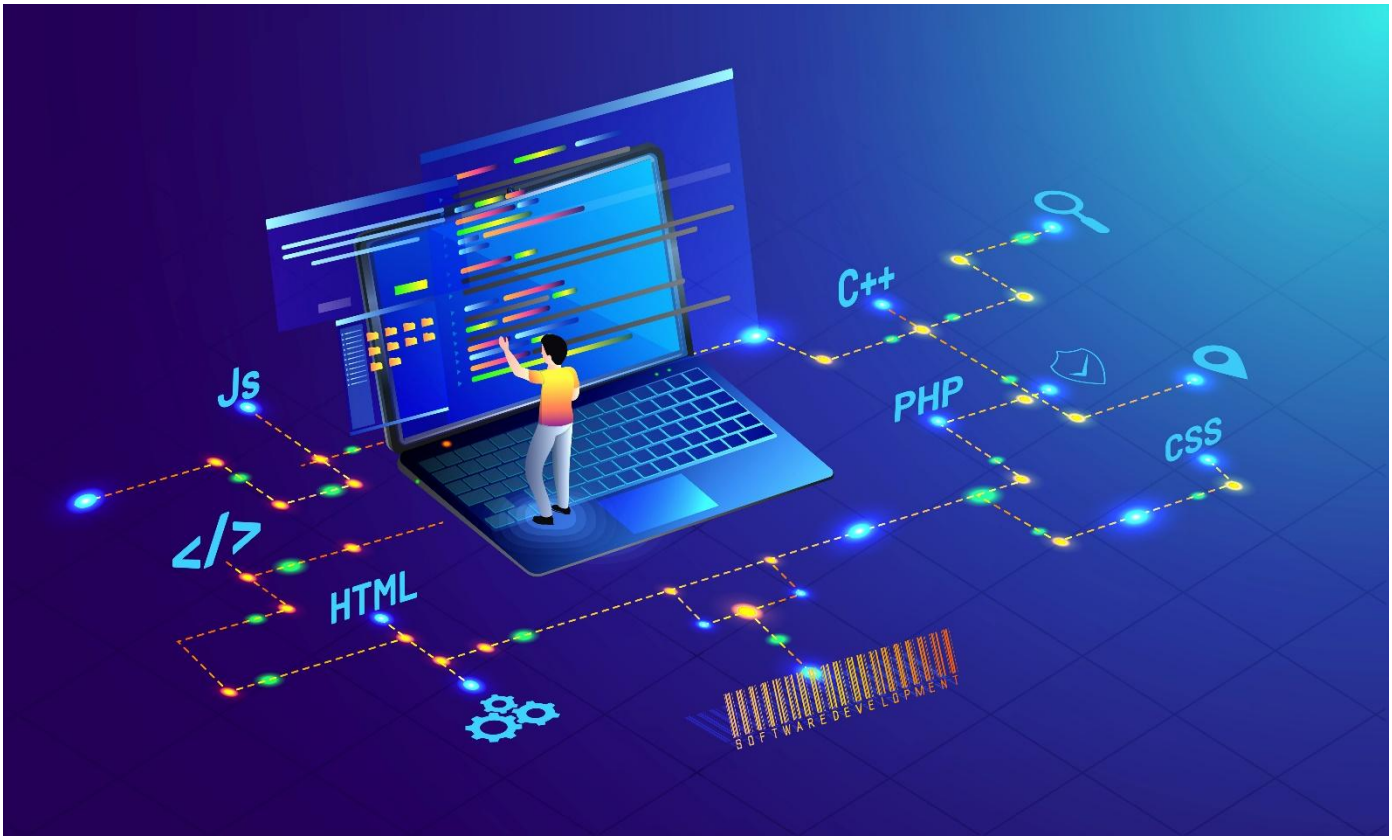
Institute for Quality Education Training and Development



Occupational Certificate

Cybersecurity Analyst

NQF Level 5

Qualification

Training Programme Name	Occupational Certificate: Cybersecurity Analyst NQF Level 5
Qualification / Course registration number	118986
NQF Level of Qualification	NQF Level 5
Minimum credits	173
Provider	The Institute for Quality
Provider Public or Private	Private

Purpose of Qualification

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.

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.

What is a QCTO Occupational Qualification?

The Occupational Qualifications are developed hand in hand with industry professionals, as they can identify the tasks to be performed and specify what the occupational profile should look like.

Industry input ensures that the curriculum meets the quality criteria of relevance and responsiveness.

The advantage of Occupational Qualifications is that they are industry-based qualifications, suggesting that a learner who holds this kind of qualification is more likely to be considered for industry-related jobs.

The Occupational Qualifications are divided into three components, theory, practical and a work-based component which will allow you to gain this important experience.

The three components are formalized in the qualification as:

1. Knowledge Modules
2. Practical Skills Modules
3. Workplace Experience Module

The final component is the External Integrated Summative Assessment

External Integrated Summative Assessment (EISA)

Once you have successfully completed all three components of the qualification, namely;

1. Knowledge modules
2. Practical skills modules, and the
3. Workplace experience modules

you will be required to sit for the EISA examination with TETA.

IQ will issue a Statement of Results for eligibility to sit for the EISA.

On successful completion of the EISA, you will receive a QCTO Qualification.

Delivery Modality:

- This qualification is offered through online lessons i.e. a blended approach where lessons are recorded and learner progresses from lesson one to end of each module.
- The lessons are presented by industry experts who use practical examples to explain the concepts of the course.
- Assessments will be written face to face

Assessment:

- Learners will be required to write an integrated summative assessment, for each module.
- Learners will be expected to compile a portfolio of evidence, which comprise all learning activities, assignment and projects.
- A logbook must be completed during the work-integrated learning.

Entry Requirements:

The minimum entry requirement for this qualification is:

- NQF Level 4

Modules

Knowledge Modules

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

Modules

Practical Skills Modules

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

Modules

Work Experience Modules:

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

About IQ

BBBEE

IQ is a level 1 contributor
BEE procurement recognition level:135%

Accreditation

Accredited for 60 qualifications
across 10 Seta's and QCTO

Experience

20 years in the industry Over 300
Clients and 2000 Certified learners

Locations

Durban | Johannesburg

Contact us

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