



BCONSULT

Occupational Certificate

QUALITY TEST AUTOMATOR

NQF Level 5 | SAQA ID 118789 | 179 Points | 12 Months

Quality Test Automator – NQF Level 5

SAQA ID: 118789 | Credits: 179 | Duration: 12-month | QCTO Learnership

1. Course Overview

The Occupational Certificate: Quality Test Automator prepares learners to ensure the quality and reliability of software products before deployment. A Quality Test Automator is responsible for identifying and reporting software bugs, defects, and risks, using both automated and manual testing methods. Learners will acquire the technical and analytical skills to design, configure, execute, and evaluate test cases while ensuring compliance with industry standards.

This qualification responds directly to the Fourth Industrial Revolution (4IR) demand for skilled professionals in software quality assurance. With the rise of artificial intelligence, automation, cloud computing, and data-driven systems, software testing has become a critical safeguard against errors that may have economic, security, and safety consequences.

2. Learning Outcomes

On completion of this programme, learners will be able to:

- Extract and analyse software requirements to design and implement test cases.
- Set up, configure, and manage test environments for accurate system evaluation.
- Execute manual and automated testing procedures, including usability, functionality, and database impact testing.
- Document, log, and report test results, ensuring traceability, auditability, and continuous improvement.

KNOWLEDGE MODULES

Curriculum Code	Knowledge Module	NQF Level	Credits
251901-001-KM-01	Software Testing in Context	4	2
251901-001-KM-02	Basic Calculations and Logical Thinking	4	4
251901-001-KM-03	Computers and Computing Systems	4	4
251901-001-KM-04	Computing Theory	4	4
251901-001-KM-05	The Role of Testing in Software Efficiency	5	8
251901-001-KM-06	Software Testing Principles, Methodologies and Techniques	5	8

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251901-001-KM-07	Data and Database	5	2
251901-001-KM-08	Introduction to Computer Database Management Systems	5	2
251901-001-KM-09	Introduction to Enterprise Resource Management Systems and Mobile Application Testing	5	3
251901-001-KM-10	Introduction to Governance, Legislation and Ethics	4	2
251901-001-KM-11	4 IR and Future Skills	4	4
251901-001-KM-12	Design Thinking Principles for Innovation	4	1

PRACTICAL SKILLS MODULES

Curriculum Code	Practical Skills Module	NQF Level	Credits
251901-001-PM-01	Basic Calculations for Programming	4	6
251901-001-PM-02	Basic Programming	4	6
251901-001-PM-03	Scrape Data and Access, Analyse and Visualise using Spreadsheets	4	4
251901-001-PM-04	Gather Information and Systematically Analyse Requirements for Testing	5	4
251901-001-PM-05	Plan Software Testing Activities and Develop a Test Design and Test Case	5	4
251901-001-PM-06	Set up the Software Test Environment	5	4
251901-001-PM-07	Apply Current State -of -the Art Tools and Techniques to Test a Software System	5	16
251901-001-PM-08	Execute Computer Software Program Testing against Expected Results	5	12
251901-001-PM-09	Participate in a Design Thinking for Innovation Workshop	5	3
251901-001-PM-10	Function Ethically and Effectively in the Workplace	4	4

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WORKPLACE MODULES

Curriculum Code	Workplace Module	NQF Level	Credits
251901-001-WM-01	System Specification Analysis and Test Case Development	5	24
251901-001-WM-02	Test Environment Setup	5	24
251901-001-WM-03	Test Execution and Test Closure	5	24

3. A Qualified Learner Will Be Able To:

- Review and analyse software requirements, prepare test scenarios, and write test cases.
- Configure test data and environments to meet testing requirements.
- Conduct manual and automated testing, validate outputs, and assess usability.
- Report on defects, risks, and system performance, contributing to overall software quality.

Entry Requirements

- A minimum of an **NQF Level 4 qualification** (or equivalent).
- Access is also available through **Recognition of Prior Learning (RPL)**, where learners' prior experience or informal training is formally assessed and recognised.

4. International Comparability

This qualification was benchmarked against international training standards in India and the United States of America.

- India (Q-Spiders Software Testing Course): Similar focus on manual and automated testing, Agile methods, and database integration. However, the South African qualification is broader, vendor-neutral, and includes structured workplace experience.

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- USA (IIST Best Practices in Software Test Planning and Design): Comparable outcomes in requirements testing, scenario creation, and test case design. The South African programme distinguishes itself by providing workplace-based learning and a structured assessment framework.

Overall, the Occupational Certificate: Quality Test Automator compares favourably, offering globally relevant skills tailored to South Africa's labour market needs.

5. Occupational Trainer – NQF Level 5 Certification

- **Occupational Certificate (Quality Test Automator)**
- **NQF Level 5** within the **Occupational Qualifications Sub-framework (OQSF)**
- Delivered and quality-assured under the **QCTO** framework

6. Potential Career Opportunities

Graduates of this qualification can pursue roles such as:

- Software Tester
- Software Test Engineer
- Quality Assurance (QA) Tester
- Quality Assurance Engineer

This qualification also provides a pathway for career progression into specialised areas such as Test Automation Engineering, Quality Assurance Management, and leadership roles in Digital Transformation initiatives.

7. Learning Options

This programme may be offered through the following modes:

- Full-time study at accredited training providers.
- Part-time / blended learning combining classroom, online, and workplace-based training.
- Workplace-based learning with structured mentorship and supervised practice.

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