



THE
LEARNING
DEVELOPMENT
GROUP

Introduction

The highly innovative and comprehensive National Certificate: ICT Software Testing, also called the Applied Programme in Software Testing (APST) is designed to accommodate the changes in the Quality Assurance and Testing landscape and to align with trends in digital transformation and cyber security.

The aim of the qualification is to equip delegates with hands-on career relevant skills from a Business, Software Development and Quality Assurance perspective so they become cross-skilled Solutions Consultants or Testers of the Future.

The qualification is aligned to the International Software Testing Qualifications Board (ISTQB®) content as well as to the International set of standards for software testing: ISO/IEC/IEEE 29119

Target Audience

This programme is directed at current or aspiring Software Test Engineers across organisations.

Specifically, it is aimed at Testers and Test Managers, Test Analysts, Engineers, Leads and User Acceptance Testers.

It is also suitable for Business Analysts, Project Managers, Developers and any IT professional wanting to evolve into and work in a testing environment.

Learning Outcomes

By the end of the qualification, you will have essential Software Testing knowledge and skills in:

- Testing levels, types, roles and responsibilities
- The Test Analysis process, analysis, review, design techniques, implementation, execution and control.
- Test Management including planning, estimation, progress monitoring and control.
- Configuration Management, risk and testing, test reporting and implementation and maintenance.
- Understanding and interpreting requirements.
- Understanding and interpreting requirements, including information gathering and elicitation.
- Software Development Lifecycle (SDLC) methodologies.
- The fundamentals of development.
- Java platforms and the Java programme language.
- Problem Analysis and Design using the Object-oriented paradigm.
- Analytical thinking and problem-solving.

Information Technology

NC: ICT Software Testing

MICTSETA Certification
FTI Certification

SAQA ID: 83026

NQF Level: 5

Credits: 138

Course Delivery & Assessment

We use in-classroom, virtual classroom and blended interactive facilitated training to embed theory and skills. You will also receive course notes and templates to help you work faster and smarter.

You will need to:

- Attend all lectures and sessions.
- Demonstrate theoretical and practical understanding of content.
- Participate in and contribute to group discussions, practical exercises, case studies and workshops.
- Practise interpersonal communication and share ideas and experiences with the peer group.
- Complete individual self-study activities such as reading, weekly homework and monthly assignments.
- Submit formative and summative assessments as part of the Portfolio of Evidence (PoE).

To receive your National Certificate: ICT Software Testing, you will need to compile, submit and be found competent on a Portfolio of Evidence (PoE).

Entry Requirements

- At least one year's software testing experience in a functioning and busy testing team, or
- To have attended a testing short course equivalent to or similar to FTI's Fundamentals of Software Quality Assurance.
- Be computer literate and tech-savvy and passionate about the field and willing to learn.

Additional Requirements

- Access to a PC, relevant software and the internet for course assignments.





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Course Content

NC: ICT Software Testing

Accreditation Body: MICTSETA

SAQA ID: 83026 | Learning Programme ID: APST

NQF Level: 5 | Credits : 138

ISTQB® & ISO aligned

Module 1: Introduction to APST/National Certificate: ICT Software Testing

Module 2: Introduction to Software Testing

- Introduction to Testing
- Testing Levels and Types
- Testing Skills and Roles and Responsibilities

Module 3: Test Analysis

- Fundamental Test Process
- Testing Analysis and Review
- Testing Design Techniques
- Test Implementation
- Test Execution & Control

Module 4: Test Management

- Introduction to Test Management
- Test Planning & Estimation
- Test Progress, Monitoring and Control
- Configuration Management
- Risk & Testing
- Test Reporting
- Implementation & Maintenance

Module 5: Fundamentals of Business Requirements

- The problem-solving process
- Information gathering
- Requirement elicitation
- The business case process
- Requirement specification
- Information Systems and Systems Development Lifecycles

Module 6: Fundamentals of Development

- Fundamentals of the Java platform and the Java programming language
- Problem Analysis and Design using Object-oriented paradigm
- Implementing objects, classes and methods in Java Programme
- Program decision constructs: decisions, conditions and loops
- Arrays
- User Interface Design
- Database Management Systems (including the basics of SQL)

Our Accredited Organisations



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Siyaya®
SKILLS INSTITUTE



PROSERV
SOUTH AFRICA



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