

NQF Level 5 | MICT SETA



Occupational Certificate: Software Tester

Develop expertise in software testing and quality assurance. Master software engineering principles, testing methodologies, debugging techniques, and project management to ensure high-quality software delivery.

70
Credits

12
Months

NQF 5
Level

Qualification Overview

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The Occupational Certificate: Software Tester is designed to develop comprehensive skills in software testing and quality assurance. This qualification prepares learners to test, debug, and ensure software applications meet client needs and industry standards through systematic testing methodologies and quality control processes.

Learning Outcomes

Upon completion of this qualification, learners will be able to:

-  Apply software engineering principles and methodologies
-  Develop and implement comprehensive software testing strategies
-  Test and debug source code to ensure client requirements are met
-  Perform manual and automated software testing procedures
-  Manage software development projects effectively
-  Apply digital and business mathematics in software contexts
-  Ensure software quality and compliance with industry standards

Core Modules

Module 1: Software Engineering and Programming (50 Credits)

- **Software Engineering (Level 6, 20 Credits):** Principles, methodologies, and best practices in software engineering
- **Software Development (Level 6, 30 Credits):** Programming concepts, development lifecycle, and coding standards
- Software design patterns and architecture
- Version control and collaborative development
- Software documentation and requirements analysis

Module 2: Digital and Business Mathematics (15 Credits)

- **Digital and Business Mathematics (Level 5, 15 Credits):** Mathematical foundations for software development
- Statistical analysis and data interpretation
- Logical reasoning and problem-solving
- Algorithmic thinking and computational mathematics
- Business metrics and performance calculations

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Module 3: Project Management in Software Engineering (5 Credits)

- **Fundamentals of Project Management (Level 5, 5 Credits):** Project management principles in software context
- Agile and Scrum methodologies
- Project planning, scheduling, and resource management
- Risk management and quality control
- Team collaboration and communication

Module 4: Testing and Quality Assurance (30 Credits)

- **Test or Debug Source Code (Level 5, 15 Credits):** Debugging techniques and code verification
- **Software Testing (Level 5, 15 Credits):** Comprehensive testing methodologies and practices
- Manual testing techniques and test case design
- Automated testing tools and frameworks
- Performance testing and load testing
- Security testing and vulnerability assessment
- Test documentation and reporting

Qualification Details

NQF Level

Level 5

Credits

70 Credits

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Duration

12 Months

SAQA ID

119438

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Career Opportunities

-  Software Tester
-  Quality Assurance Analyst
-  Test Automation Engineer
-  Software Quality Engineer
-  Test Lead/Manager
-  Software Developer

Need Help?

Contact our qualification specialists for guidance.

help@specccon.co.za

Related Qualifications



NQF Level 5

Systems Development



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NQF Level 3

End User Computing



NQF Level 5

Systems Support



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Phone: 012 667 4962

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