



NQF Level 6 | MICT SETA

Software Engineer

Master advanced software engineering principles including software development, database design, project management, and testing methodologies. This comprehensive qualification prepares you for senior software engineering roles in the technology industry.

240
Credits

24-36
Months

NQF 6
Level



Qualification Overview

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The Software Engineer qualification is designed for professionals seeking to advance their careers in software development and engineering. This comprehensive program covers advanced programming techniques, software architecture, database design, project management, and quality assurance practices essential for modern software engineering roles.

Learning Outcomes

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

-  Design and develop complex software applications using advanced programming techniques
-  Architect scalable and maintainable software systems
-  Design, implement, and optimise database solutions
-  Apply project management principles to software development projects
-  Implement comprehensive testing and quality assurance procedures
-  Lead software development teams and mentor junior developers
-  Deploy and maintain enterprise-level applications
-  Analyse business requirements and translate them into technical solutions

Core Modules

Module 1: Software Engineering and Programming

- Software Engineering
- Programming
- Document System Design
- Programme and Deploy Applications
- Software Design

• Software Development

Module 2: Database Design and Management

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- Database Design and Information Systems
- Digital and Business Mathematics
- Design and Manipulate Databases
- Database Design and Manipulation

Module 3: Project Management in Software Engineering

- Fundamentals of Project Management in Relation to Software Engineering

Module 4: Testing and Quality Assurance

- Test or Debug Source Code to Ensure Client's Needs Are Met
- Software Testing

Qualification Details

SETA	MICT SETA
NQF Level	Level 6
Credits	240 Credits
Duration	24-36 Months
SAQA ID	119458

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Career Opportunities

-  Junior Software Engineer/Developer
-  Web/Mobile App Developer
-  Junior Technical Lead/Team Member
-  Software Test/Quality Assurance Engineer

Need Help?

Contact our qualification specialists for guidance.

help@speccon.co.za

Related Qualifications

Explore other MICT SETA qualifications



NQF Level 4

Systems Development



NQF Level 6

Business Analysis



All Levels

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