



Learnership

Information Technology: Software Testing

Level 5

SAQA ID – 83026

147 Credits

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Qualification Information

National Certificate: Information Technology: Software Testing

Level 5

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147 Credits

Entry Requirements:

- Communications at NQF Level 4
- Mathematical Literacy at NQF Level 4
- Computer Literacy at NQF Level 3

Objective:

The purpose of this Qualification is to produce well trained people who can conduct a practical investigation to provide stakeholders with information about the quality of the software product or service under test. It will provide learners with both theoretical and practical learning to develop their ability as software testers in the workplace. In essence, it will equip the learner with the ability to apply the software testing process of validating and verifying that a software programme/application/product:

Meets the business and technical requirements that guided its design and development
Works as expected can be implemented with the same characteristics

Qualification Outcome

On achieving this Qualification, the learner will be able to:

- Demonstrate and apply an understanding of the principles of the Software Development Lifecycle (SDLC)
- Evaluate requirements and requirement-based test design
- Execute the testing process
- Manage the testing process, execution and defect tracking
- Conduct static testing

Responsibilities

Edge Training will provide:

- Full project management of learnership
- Monthly progress reports, quarterly reports to the SETA and handling of SETA site visits and the external verification visit at the end of the learnership
- Course material, pens, and workbooks
- Training, using a Qualified Facilitator
- Assessments and moderation
- Uploading of learners on learner registration database and learner achievements
- Certificates of completion and competence
- SETA certificate of competence
- Venue suitable for the number of delegates and required refreshments
- Email access for learners
- Workplace provision

Combined responsibilities of Edge Training and Client:

- Ensure successful completion of the learnerships
- Quarterly project steering committee meeting

Qualification Structure and Outlines

Skills Programme 1:

| US Type | NLRD | Unit Standard Type | Level | Credits |
|---------------|--------|---|---------|---------|
| Core | 386055 | Conduct software inspections and reviews | Level 5 | 5 |
| Fundamental | 258836 | Analyse and apply different Information and Communication Technology (ICT) Systems Development Lifecycle (SDLC) models for a given scenario | Level 5 | 8 |
| Fundamental | 115392 | Apply principles of creating computer software by developing a complete programme to meet given business specifications | Level 5 | 12 |
| Total Credits | | | | 25 |

Skills Programme 2:

| US Type | NLRD | Unit Standard Type | Level | Credits |
|---------------|--------|--|---------|---------|
| Fundamental | 115431 | Analyse feedback contexts and apply constructive feedback techniques | Level 5 | 3 |
| Fundamental | 114051 | Conduct a technical practitioners meeting | Level 5 | 4 |
| Fundamental | 386053 | Evaluate requirements and requirement-based test design | Level 5 | 7 |
| Fundamental | 259277 | Perform requirements analysis | Level 6 | 25 |
| Total Credits | | | | 39 |

Skills Programme 3:

| US Type | NLRD | Unit Standard Type | Level | Credits |
|---------------|--------|---|---------|---------|
| Core | 117556 | Demonstrate an understanding of Computer Database Management Systems | Level 5 | 7 |
| Core | 117556 | Write and present for a wide range of purposes, audiences and contexts | Level 5 | 5 |
| Core | 117556 | Demonstrate an understanding of estimating a unit of work and the 5 implications of late delivery | Level 5 | 5 |
| Total Credits | | | | 17 |

Qualification Structure and Outlines

Skills Programme 4:

| US Type | NLRD | Unit Standard Type | Level | Credits |
|---------------|--------|--|---------|---------|
| Core | 386054 | Manage the software testing process | Level 5 | 7 |
| Core | 386056 | Plan and design software testing activities | Level 5 | 8 |
| Core | 114044 | Demonstrate an understanding of change management for computer systems | Level 6 | 3 |
| Total Credits | | | 18 | |

Skills Programme 5:

| US Type | NLRD | Unit Standard Type | Level | Credits |
|---------------|--------|---|---------|---------|
| Core | 115384 | Test a computer program against a given specification | Level 5 | 6 |
| Core | 13099 | Contribute to the implementation, post-implementation review and maintenance of information systems | Level 6 | 16 |
| Total Credits | | | 22 | |

Skills Programme 6:

| US Type | NLRD | Unit Standard Type | Level | Credits |
|---------------|--------|---|---------|---------|
| Elective | 243816 | Develop a project quality management plan for a simple to moderately complex project | Level 5 | 6 |
| Elective | 243824 | Develop an integrated Project Management plan for a simple to moderately complex project | Level 5 | 8 |
| Elective | 243812 | Monitor and control the execution of the project management plan for a simple to moderately complex project | Level 5 | 12 |
| Total Credits | | | 26 | |

Notional Hours Matrix:

The roll out strategy below indicates the relationship between theory, practical, workplace and FSA component:

| Skills Programmes | Credits | Notional Hours | Contact Session 30% (Hours) | Experiential Learning 70% (Hours) | TOTAL Notional Hours |
|-------------------|---------|----------------|-----------------------------|-----------------------------------|----------------------|
| 1 | 25 | 250 | 75 | 175 | 250 |
| 2 | 39 | 390 | 117 | 273 | 390 |
| 3 | 17 | 170 | 51 | 119 | 170 |
| 4 | 18 | 180 | 54 | 126 | 180 |
| 5 | 22 | 220 | 66 | 154 | 220 |
| 6 | 26 | 260 | 78 | 182 | 260 |
| TOTALS | 147 | 1470 | 441 | 1029 | 1470 |

Get in Touch

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We are a fully accredited training provider with BEE Level 1 certification and SSETA Accreditation #1135. Our VAT number is 4640189041, and we are registered under the number 2017 / 349079 / 07.