



**FETC:**  
**INFORMATION  
TECHNOLOGY:  
SYSTEMS  
DEVELOPMENT**



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## FURTHER EDUCATION AND TRAINING CERTIFICATE: INFORMATION TECHNOLOGY: SYSTEMS DEVELOPMENT

### COURSE INFORMATION

**SAQA ID:** 78965

**NQF Level:** 4

**Learnership Duration:** 12 months

**Credits:** 150

**Contact Sessions:** Minimum Contact Session, including remediation (if required), and POE Building for this Qualification is 90 Days

**Accrediting SETA:** Media, Information and Communication Technology Sector Education & Training Authority.

### ENTRY CRITERIA

- Grade 12
- Communication at NQF Level 3.
- Mathematical Literacy at NQF Level 3.
- Computer Literacy at NQF Level 3.

### QUALIFICATION RULES

The qualification consists of a minimum of 165 credits and has been designed in accordance with the SAQA regulations and

1. All fundamental unit standards are compulsory for this qualification. (56 credits)
2. All core unit standards are compulsory. (63 credits)
3. Elective unit standards totalling a minimum of 46 credits needs to be completed.

### EQUIPMENT REQUIRED

- Hardware: Access to a computer, display monitor / keyboard / mouse / printer
- Software: Windows 7 OS system | MS Office 2010 | Printer Driver (Where applicable)

### CANDIDATE PROFILE & DEPLOYMENT

**Target Market:** Junior Developer/Programmer • Software Tester • Database Technician • Junior Business Analyst • Web Developer/Application Developer

**Mentor Requirements:** Mentor must have at least 5 years' experience in a Business Administration or similar environment.

**Workplace Approval:** Not Applicable

**Workplace Requirements:** Learners must be exposed to all outcomes related to this qualification.

### PURPOSE

The purpose of this qualification is to build a foundational entry into the field of Computer Sciences and Information Technology, specifically into the field of Systems Development, covering basic knowledge needed for further study in the field of Systems Development at Higher Education Levels.

### SKILL LEVEL OUTCOME

- Communicate effectively with fellow IT staff & users of information systems.
- Demonstrate an understanding of different types of computer systems and the use of computer technology in business.
- Demonstrate an understanding of problem-solving techniques, and how to apply them in a technical environment.
- Demonstrate an understanding of Computer Technology Principles.
- Demonstrate an understanding of Computer Programming Principles.
- Work effectively as a team member within a development project environment.
- Carry out, under supervision, a small size task to demonstrate an understanding of the knowledge, techniques & skills needed to understand the fundamentals of Computer Programming.

### ASSESSMENT MANAGEMENT

#### **Credit Accumulation Transfer (CAT):**

CAT exemption is only applicable to approved learners. Approved learners will have reduced contact days. Learners who do not meet the CAT requirements will be required to complete Part 1 and Part 2 of every Cluster.

#### **FISA Requirements:**

Final Integrated Summative Assessment is requirement for the successful completion of this learnership.

#### **Recognition of Prior Learning (RPL):**

RPL is available for this

### Learning Programme 1: Communication Studies and Language

Outcome	SAQA ID	Name of Unit Standard	Credits	Training days
Core	14933	Demonstrate an understanding of creating multimedia/web-based computer applications with scripting	6	15
Fundamental	119462	Engage in sustained oral/signed communication and evaluate spoken/signed texts	5	
Fundamental	119459	Write/present/sign for a wide range of contexts	4	
Fundamental	119457	Interpret and use information from texts	5	
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	5	
Fundamental	119458	Analyse and respond to a variety of literary texts	5	
Fundamental	119469	Read/view, analyse and respond to a variety of texts	5	
Fundamental	119465	Write/present/sign texts for a range of communicative contexts	5	
Fundamental	12154	Apply comprehension skills to engage oral texts in a business environment	5	
<b>PoE Building and Remedials</b>				<b>5</b>

### Learning Programme 2: Mathematical Literacy

Outcome	SAQA ID	Name of Unit Standard	Credits	Training days
Fundamental	9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	6	10
Fundamental	9016	Represent analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	4	
Fundamental	7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	4	

### Learning Programme 3: Principles of computer programming

Outcome	SAQA ID	Name of Unit Standard	Credits	Training days
Elective	14921	Describe the types of computer systems and associated hardware configurations	6	15
Core	14918	Describe the principles of Computer Programming	5	
Core	14910	Apply the principles of Computer Programming	8	
<b>PoE Building and Remedials</b>				<b>5</b>

### Learning Programme 4: Carrying out systems development

Outcome	SAQA ID	Name of Unit Standard	Credits	Training days
Core	14909	Describe the difference between programming in Object Orientated and Procedural Languages	4	10
Core	14924	Demonstrate an understanding of information systems analysis	3	
Core	14930	Demonstrate an understanding of the principles of developing software for the internet	3	
Core	14915	Design a computer program according to given specifications	8	
Elective	14908	Demonstrate an understanding of testing IT systems against given specifications	6	
<b>PoE Building and Remedials</b>				<b>5</b>

### Learning Programme 5: Principles of Computer Technology

Outcome	SAQA ID	Name of Unit Standard	Credits	Training days
Core	14917	Explain computer architecture concepts	7	5
Elective	114636	Demonstrate an understanding of preventative maintenance, environmental and safety issues in a computer environment	6	

### Learning Programme 6: Computer technology in business

Outcome	SAQA ID	Name of Unit Standard	Credits	Training days
Core	14913	Explain the principles of computer networks	5	5
Core	14944	Explain how data is stored on computers	7	
Elective	14926	Describe information systems departments in business organisation	3	
<b>PoE Building and Remedials</b>				<b>5</b>

### Learning Programme 7: Problem solving techniques

Outcome	SAQA ID	Name of Unit Standard	Credits	Training days
Core	14927	Apply problem solving strategies	4	5
Core	14920	Participate in groups and/or teams to recommend solutions to problems	3	
Elective	14919	Resolve computer user`s problems	5	
Elective	120379	Work as a project team member	8	
<b>PoE Building and Remedials</b>				<b>5</b>