

Further Education and Training Certificate: Information Technology: Systems Development

SAQA: 78965 | NQF Level: 4 | Total Credits: 165 | Duration: 1 Year

Accreditation Authority: Media, Information and Communication Technologies Sector Education and Training Authority (MICT SETA)

Prepare for a career in systems development with the Further Education and Training Certificate: System Development. This qualification provides foundational skills in IT Systems, computer programming and problem solving, ideal for roles such as junior software developer or IT support technician, you'll gain practical experience and technical knowledge to design, develop, and troubleshoot systems in a variety of business environments.

Admission Requirements

To register for this qualification, candidates must meet one of the following criteria:

- ❖ National Certificate at NQF Level 3 or equivalent
- ❖ Recognition of Prior Learning (RPL) is available for candidates with relevant industry experience.

Qualification Structure

The qualification comprises of three components: Fundamental, Core and Elective modules, totalling a minimum of 165 credits delivered over the course of one year, the qualification is structured as follows:

Unit Standard	Unit Standard Title	NQF Level	Credits
SEMESTER 1			
Fundamental Modules (COMPULSORY)			
114076	Use computer technology to research a computer topic	4	3
116389	Write a technical report	4	4
115431	Analyse feedback contexts and apply constructive feedback techniques	5	3
114051	Conduct a technical practitioners meeting	5	4
114055	Demonstrate an awareness of ethics and professionalism for the computer industry in South Africa	5	3
114059	Demonstrate an understanding of estimating a unit of work and the implications of late delivery	5	5
114050	Explain the principles of business and the role of information technology	5	4
13925	Present information in a public setting	5	5
Core Modules (COMPULSORY)			
115359	Demonstrate an understanding of the handling of error in a computer programming environment	4	2
115391	Demonstrate an understanding of the principles of the internet and the world-wide-web	4	3
115358	Apply information gathering techniques for computer system development	5	7
115392	Apply principles of creating computer software by developing a complete programme to meet given business specifications	5	12
115365	Apply the principles of designing computer system inputs and outputs	5	7
114048	Create database access for a computer application using structured query language	5	9
114049	Demonstrate an understanding of Computer Database Management Systems	5	7
115373	Demonstrate an understanding of sort and search techniques used in computer programming	5	6
115367	Demonstrate logical problem solving and error detection techniques	5	8
115362	Manage software development source files using appropriate tools	5	5

115388	Produce documentation for a computer program to agreed standards	5	3
115384	Test a computer program against a given specification	5	6
SEMESTER 2			
Elective Component (Minimum 25 Credits) - Procedural Programming			
114636	Demonstrate an understanding of preventative maintenance, environmental and safety issues in a computer environment	3	6
14912	Investigate the use of computer technology in an organisation	3	6
10313	Comply with service levels as set out in a Contact Centre Operation	4	10
14908	Demonstrate an understanding of testing IT systems against given specifications	4	6
14926	Describe information systems departments in business organisations	4	3
14921	Describe the types of computer systems and associated hardware configurations	4	6
252210	Handle a range of customer complaints	4	4
14919	Resolve computer user`s problems	4	5
118028	Supervise customer service standards	4	8
120379	Work as a project team member	4	8

Career Opportunities

Students for this qualification are equipped with the essential skills needed to excel in all industries. Upon completing this qualification, Students can pursue various career opportunities, including:

- ❖ Junior Software Developer
- ❖ IT Support Technician
- ❖ Web Developer
- ❖ Systems Analyst Assistant
- ❖ Technical Documentation Writer
- ❖ Help Desk Technician

Articulation Options

- ❖ Horizontal: National Certificate: Systems Support (NQF Level 4)
- ❖ Vertical: National Diploma in IT: Systems Development (NQF Level 6)
- ❖ Diagonal: Higher Certificate in Information and Communication Technology (NQF Level 5)