

/EDGE ICT

INFORMATION
TECHNOLOGY:

<h1>

// SYSTEMS DEVELOPMENT

NQF Level 5 | SAQA ID - 48872 | Credits - 139


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QUALIFICATION INFORMATION

National Certificate: Information Technology: Systems Development

Level 5 // SAQA ID: 48872 // Credits: 139

Entry Requirements:

- It is assumed that the learner must be competent in skills gained at the further education and training band, with Computer Studies as an advantage, but not a requirement.
- A learning assumption of this qualification is foundational skills in communication and mathematical literacy as required by NQF level 4 qualifications.
- The assumed learning can be acquired in the traditional way of formal study as well as in the workplace.
- Further learning assumed is the ability to use a personal computer competently.

Objective:

The purpose of this qualification is to enhance readiness and provide entry into the areas of Systems Development at NQF level 5. It prepares learners for entry into the workplace or as undergraduate study in the Systems Development areas covered, providing them with the necessary knowledge needed for further study in the fields of Information Technology and Computer Sciences at Higher Education level.

The qualification is addressing the need in the workplace for nationally recognised qualifications, based on unit standards, that will allow people with workplace experience in the Systems Development areas covered, to request assessments and get recognition for prior learning.

A qualifying learner will be able to communicate effectively with fellow IT staff & users of information technology, understanding the role of technology in a business context and to be able to address business problems with appropriate information technology solutions. Learners will be able to apply the principles of creating computer software by carrying out, under limited supervision, a task of reasonable size to demonstrate an understanding of the knowledge, techniques & skills needed in one or more area of majoring/specialisation that the qualification offers.

// QUALIFICATION OUTCOME

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

- Communicate effectively with fellow IT staff & users of information systems
- Understand the role of technology in the business context
- Demonstrate an understanding of problem solving techniques, and how to apply them in a systems development environment
- Demonstrate an understanding of Systems Development, with all its implications
- Relate business problems and information technology solutions
- Apply the principles of creating computer software

RESPONSIBILITIES



Edge ICT 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
- Fully equipped computer room, WI-FI services, 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



◀ QUALIFICATION STRUCTURE AND OUTLINES ▶

Module 1:

US Type	NLRD	Unit Standard Type	Level	Credits
Core	115359	Demonstrate an understanding of the handling of error in a computer programming environment	Level 4	2
Core	115365	Apply the principles of designing computer system inputs and outputs	Level 5	7
Core	115362	Manage software development source files using appropriate tools	Level 5	5
Core	115367	Demonstrate logical problem solving and error detection techniques	Level 5	8
Core	115373	Demonstrate an understanding of sort and search techniques used in computer programming	Level 5	6
Core	115384	Test a computer program against a given specification	Level 5	6
Total Credits				34

Module 2:

US Type	NLRD	Unit Standard Type	Level	Credits
Core	115359	Create database access for a computer application using structured query language	Level 5	9
Fundamental	114055	Demonstrate an awareness of ethics and professionalism for the computer industry in South Africa	Level 5	3
Elective	115369	Design and build a web-site using simple HTML	Level 5	5
Elective	115383	Demonstrate an understanding of the principles of designing and building an e-Commerce web site	Level 5	10
Fundamental	13925	Present information in a public setting	Level 5	5
Core	115391	Demonstrate an understanding of the principles of the internet and the world-wide-web	Level 4	3
Total Credits				35

< QUALIFICATION STRUCTURE AND OUTLINES >

Module 3 :

US Type	NLRD	Unit Standard Type	Level	Credits
Fundamental	114076	Use computer technology to research a computer topic	Level 4	3
Fundamental	114051	Conduct a technical practitioners meeting	Level 5	4
Core	115391	Demonstrate an understanding of the principles of the internet and the world-wide-web	Level 4	3
Elective	115368	Apply advanced HTML and associated techniques to build a web site for business applications	Level 5	12
Elective	115372	Demonstrate an understanding of tools and products available for web-site development	Level 5	3
Total Credits			25	

Module 4 :

US Type	NLRD	Unit Standard Type	Level	Credits
Fundamental	115431	Analyse feedback contexts and apply constructive feedback techniques	Level 5	3
Fundamental	114050	Explain the principles of business and the role of information technology	Level 5	4
Core	115358	Apply information gathering techniques for computer system development	Level 5	7
Core	114049	Demonstrate an understanding of Computer Database Management Systems	Level 5	7
Core	115388	Produce documentation for a computer program to agreed standards	Level 5	3
Total Credits			24	

< QUALIFICATION STRUCTURE AND OUTLINES >

Module 5:

US Type	NLRD	Unit Standard Type	Level	Credits
Fundamental	116389	Write a technical report	Level 4	4
Fundamental	114059	Demonstrate an understanding of estimating a unit of work and the implications of late delivery	Level 5	5
Core	115392	Apply principles of creating computer software by developing a complete programme to meet given business specifications	Level 5	12
Total Credits				21

{ 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	34	340	102	238	340
2	35	350	105	245	350
3	25	250	75	175	250
4	24	240	72	168	240
5	21	210	63	147	210
TOTALS	139	1390	417	973	1390

CONTACT US

☎ // 087 135 5543

✉ // info@edgeict.co.za

🖱 // www.edgeict.co.za

📍 // 12 Radar Drive, Durban North

