



NATIONAL CERTIFICATE IN
SYSTEM DEVELOPMENT

SAQA ID: 48872

NQF LEVEL 5

CREDITS: 131

GENERAL INFORMATION

COURSE DELIVERY

- Instructor led / online
- Delivery can be full-time or part time (modular) around the availability of learners/employees.

TRAINING DURATION

1 year

INTAKE

Quarterly

ADMISSION REQUIREMENTS

- Foundational skills in English and Mathematics at NQF level 4 /Grade 12 or equivalent
- Ability to use a personal computer competently

CAREER OPPORTUNITIES

- Software Developer/Internet and Web Designer
- Computer Programmer
- Database Administrator
- Systems Design / Analysts
- Software Project Manager

FEES

- ~~R45 000~~ R30 820 (VAT inclusive)
- Registration fee R1 500 (once off)
- Deposit R7 000
- Instalment (over 10 months) ~~R3 650~~ R2 382
- Reassessment fee R450

PURPOSE OF THE QUALIFICATION

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.

EXIT LEVEL OUTCOMES

On completion of the is qualification learners are 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

UNIT STANDARDS:

| | ID | UNIT STANDARD TITLE | PRE-2009 NQF LEVEL | CREDITS |
|-------------|------------------------|---|---------------------------|----------------|
| Core | 115359 | Demonstrate an understanding of the handling of error in a computer programming environment | Level 4 | 2 |
| Core | 115391 | Demonstrate an understanding of the principles of the internet and the world-wide-web | Level 4 | 3 |
| Core | 115358 | Apply information gathering techniques for computer system development | Level 5 | 7 |
| Core | 115392 | Apply principles of creating computer software by developing a complete programme to meet given business specifications | Level 5 | 12 |
| Core | 115365 | Apply the principles of designing computer system inputs and outputs | Level 5 | 7 |
| Core | 114048 | Create database access for a computer application using structured query language | Level 5 | 9 |
| Core | 114049 | Demonstrate an understanding of Computer Database Management Systems | Level 5 | 7 |
| Core | 115373 | Demonstrate an understanding of sort and search techniques used in computer programming | Level 5 | 6 |
| Core | 115367 | Demonstrate logical problem solving and error detection techniques | Level 5 | 8 |
| Core | 115362 | Manage software development source files using appropriate tools | Level 5 | 5 |
| Core | 115388 | Produce documentation for a computer program to agreed standards | Level 5 | 3 |
| Core | 115384 | Test a computer program against a given specification | Level 5 | 6 |
| Fundamental | 114076 | Use computer technology to research a computer topic | Level 4 | 3 |
| Fundamental | 116389 | Write a technical report | Level 4 | 4 |
| Fundamental | 115431 | Analyse feedback contexts and apply constructive feedback techniques | Level 5 | 3 |
| Fundamental | 114051 | Conduct a technical practitioners meeting | Level 5 | 4 |
| Fundamental | 114055 | Demonstrate an awareness of ethics and professionalism for the computer industry in South Africa | Level 5 | 3 |
| Fundamental | 114059 | Demonstrate an understanding of estimating a unit of work and the implications of late delivery | Level 5 | 5 |
| Fundamental | 114050 | Explain the principles of business and the role of information technology | Level 5 | 4 |
| Fundamental | 13925 | Present information in a public setting | Level 5 | 5 |
| Elective | 115368 | Apply advanced HTML and associated techniques to build a web site for business applications | Level 5 | 12 |
| Elective | 115383 | Demonstrate an understanding of the principles of designing and building an e-Commerce web site | Level 5 | 10 |
| Elective | 115372 | Demonstrate an understanding of tools and products available for web-site development | Level 5 | 3 |
| Elective | 115369 | Design and build a web-site using simple HTML | Level 5 | 5 |

Accreditation and Certification

Ginini Consulting (Pty) Ltd is accredited by MICT SETA for these Unit Standards with Accreditation number ACC/2018/07/0027.



Learners who are declared COMPETENT on unit standards after external moderation by the MICT SETA will receive a SETA issued Statement of Results and Ginini Consulting Certificate of Competence endorsed by MICT SETA.

Funding alternative

Fundi is a private leading provider of study loans in South Africa. They provide study loans for:

- registered students whose parents have been employed permanently for longer than one year; or
- registered students who themselves have been employed permanently for longer than one year



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