



SAQA ID 78965

FURTHER EDUCATION & TRAINING CERTIFICATE

**Information Technology: Systems Development
NQF Level 4
165 Credits**

Purpose & Rationale of the Qualification

INTRODUCTION

Are you intrigued by the intricate workings of modern technology? Do you have a passion for creating innovative software solutions that drive businesses forward? In an era where technology is the backbone of nearly every industry, the demand for skilled IT professionals has never been higher. The IT Systems Development qualification equips you with the knowledge, skills, and practical experience needed to excel in this fast-paced and ever-evolving field.

TARGET AUDIENCE

Aspiring Developers: You're curious about coding, have a logical mindset, and enjoy turning ideas into functional applications.

Tech Enthusiasts: You're fascinated by the ever-changing tech landscape and want to actively contribute to shaping it.

Problem Solvers: Individuals who enjoy solving complex puzzles and translating user needs into user-friendly software will thrive in this program.

Career Changers: If you're seeking a career transition into the tech industry, this qualification welcomes individuals from diverse backgrounds.

WORKPLACE REQUIREMENTS

You will need access to appropriate workplace projects to complete the practical components of the qualification.

- ✓ To be working on work projects that involve requirements gathering and specification for IT enabled business solutions.
- ✓ Access to a PC and software for course assignments.
- ✓ Active support and mentorship by your manager.

COURSE DELIVERY & ASSESSMENT

We use in-classroom, virtual classroom and blended interactive facilitated training sessions, group discussions, assignments, case studies and self-study to embed skills.

You will need to:

- ✓ Attend all lectures and sessions.
- ✓ Complete and present practical workplace assignments.
- ✓ Demonstrate theoretical and practical understanding of programme content.
- ✓ Compile and submit a Portfolio of Evidence (PoE).

To receive your certificate in Systems Development, you will need to compile, submit and be found competent on a Portfolio of Evidence (PoE).

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COURSE OUTCOMES

Upon successful completion students will be able to:

- ✓ 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.

PROGRAMME OUTLINE

MODULE 1: Introduction to computer systems and technology

MODULE 2: Computer architecture, networking and data storage systems

MODULE 3: Principles of internet-based software development

MODULE 4: Information systems analysis

MODULE 5: Resolving customer complaints

MODULE 6: Testing IT systems

MODULE 7: Business communication

MODULE 8: Mathematics

