



MINDWORX
Academy.

National Certificate in Information Technology (Systems Development) NQF Level 5

Programme overview

The purpose of this course is to prepare learners for entry into the workplace, providing them with the knowledge needed to succeed in the area of systems (software) development.

Programme outcomes

Learners will be able to apply the principles of creating computer software by carrying out, under limited supervision, a task to demonstrate an understanding of the knowledge, techniques and skills needed in one or more areas of software development.

Key benefits

Clients

- Tax rebates
- B-BBEE benefits - Skills Development, Preferential Procurement, Enterprise Development
- Skilled entry-level graduates
- Proficiency in coding and programming (C#, JAVA, Python etc)

Graduates

- National Certificate Qualification
- Personal mastery
- Work-readiness
- Mentoring and coaching sessions (12 months)



Content overview

Personal development

- Create ethics awareness and professionalism for the computer industry in South Africa
- An understanding of estimating the units of work and the implications of late delivery
- Explain the principles of business and the role of information technology
- Analyse feedback and apply constructive feedback techniques

Gathering techniques for computer system development

- Apply gathering techniques for computer system development
- Apply principles of creating computer software by developing a complete program to meet business specifications
- Test computer programs against a given specification
- Apply the principles of designing computer system inputs and outputs

Programme delivery structure

12 month training

- 2-3 months classroom training
- 10 months work-based experience
- Contact sessions
- Peer learning and research
- Exam and assignments
- Action learning projects
- Workplace exposure
- Key programming languages: JAVA, C#, Python, mobile apps

Some happy clients

Database design, implementation and development

- An understanding of computer database management system
- An understanding of sort and search techniques used in computer programming
- Create database access for computer applications using structured query language
- Logical problem solving and error detection techniques

Programming and the world wide web

- Manage software development source files using appropriate tools
- Apply the principles of designing computer system inputs and outputs
- Design and build websites using simple HTML
- Logical problem solving and error detection techniques
- An understanding of the principles of the internet and the world wide web
- Create database access for a computer application using structured query language