



# Higher Certificate in Information Systems (Cloud Computing)

SAQA ID 120688 NQF Level 5

## 🕒 Qualification duration

### Contact

Full-Time (Campus)

- Minimum: 1 year
- Maximum: 3 years

Full-Time (Online)

- Minimum: 1 year
- Maximum: 3 years

Part-Time (Online)

- Minimum: 2 years
- Maximum: 4 years

## ☰ Qualification description

Head in the clouds? The Fourth Industrial Revolution, also referred to as Industry 4.0, is a new phase in the industrial revolution that also focuses heavily on Cloud Computing. It is a general term for anything that involves delivering hosted services over the internet. Cloud Computing is a type of computing that relies on shared computing resources rather than having local servers or personal devices to handle applications.

The Higher Certificate in Information Systems (Cloud Computing) is a career-focused qualification that is intensive but also broad. It provides you with the fundamental and technical knowledge as well as the applicable skill set in Computer Hardware, Networking Technologies, IT Virtualisation, Security and Cloud Foundations.

## ✔ Entry requirements

- South African National Senior Certificate (NSC) with Bachelor's degree, Diploma or Higher Certificate pass.
- Or a National Certificate (Vocational) Level 4 issued by the Council of General and Further Education and Training with a Bachelor's degree, Diploma or Higher Certificate pass.
- Or a Certificate of evaluation on a minimum NQF level 4 for foreign qualification issued by SAQA.
- Or a letter or certificate confirming an exemption from Universities South Africa (USAf) for any other school-leaving results.
- Or completion of a Bachelor's degree, Diploma, Higher Certificate or equivalent.

## 📄 Qualification accreditation

- Accredited by the Higher Education Quality Committee (HEQC) of the Council on Higher Education (CHE).
- Registered with the South African Qualifications Authority (SAQA).

## 📁 Possible career options

The career choices for you as a Higher Certificate in Information Systems (Cloud Computing) graduate include junior positions in:

- AWS Core Services, Cloud Systems Administration
- Cloud Network Administration, AWS Security
- IT Auditor, Security Specialist
- Network Administration, Network Analyst
- Network Support Specialist
- Security Engineer, Security Administrator
- Support Specialist, Desktop Support Analyst
- Systems Administrator

## This qualification is offered at the following campuses:

- Bedfordview
- Bloemfontein
- Cape Town: Mowbray
- Cape Town: Tyger Valley
- Durban
- East London
- Mbombela
- Midrand
- Nelson Mandela Bay
- Potchefstroom
- Pretoria
- Vanderbijlpark



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## Qualification structure

### Year 1

- A+ \*
- Computer Literacy (Microsoft)
- Azure Fundamentals
- Cloud+ \*\*
- Cloud Foundations (AWS)
- Hyper-V Fundamentals
- Linux Operating System
- Personal Skills Development
- Network+ \*\*\*
- Security+ \*\*\*\*
- Windows Server

\* A+ (CompTIA Certification Voucher)

\*\* Cloud+ (Optional CompTIA Certification Voucher)

\*\*\* Network+ (CompTIA Certification Voucher)

\*\*\*\* Security+ (CompTIA Certification Voucher)

## Partnerships and Memberhips

Eduvos is proud to announce the following memberships and/or partnerships with the following:

- Computing Technology Information Association (CompTIA) \*
- Amazon Web Services (AWS) Academy \*\*
- The Institute of IT Professionals South Africa (IITPSA)
- Institute of Chartered IT Professionals (ICITP) South Africa
- South African Artificial Intelligence Association (SAAIA)
- Integrated Electronics Corporation (Intel)

\* Eduvos is a proud CompTIA partner. Through this partnership, students who opt for streams incorporating CompTIA modules, will qualify to attempt certification exams at partner pricing. Some streams include mandatory vouchers, while others offer them as optional. You may also inquire about additional CompTIA certifications that are available at our institution. All vouchers are applicable only for the first sitting and the certification exam fees are added to the course fee.

\*\* Eduvos is an AWS Academy member institute and is authorised to teach AWS Academy courses.



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## Module descriptors

### Year 1

#### **A+**

The module provides students with a foundation for building, supporting, and upgrading computer hardware devices, peripherals and basic networks and an understanding of how to provide customer support. Students will be able to describe the function of and identify all the internal and external components of desktop and portable computers, recommend and build a custom computer system for end users, disassemble, and reassemble a computer system, set up a printer, perform common maintenance procedures, practice proper safety procedures, and interact with customers in a professional manner. The fundamental principles of networking and the internet will also be explored.

#### **Computer Literacy (Microsoft)**

The module teaches students how to use Microsoft Office applications such as Word, Excel, PowerPoint, Access and Outlook. This is intended to strengthen students' computer application skills as students will use Microsoft Office and fundamental computer operations for documentation and data management throughout the qualification. These skills also assist students in the preparation of design documents, presentations, budgeting spreadsheets, and other administrative tasks.

#### **Azure Fundamentals**

The module covers everything from high-level ideas that apply to all of Azure to key concepts that are specific to a single Azure service. This module is designed to provide you with a basic overview of Azure as well as many of its common services and components.

#### **Cloud+**

This module will provide you with the information and skills necessary to make informed judgments about cloud technology. By examining business use cases, you will discover what cloud computing implies from a business and technological standpoint, as well as what is involved in using the cloud and the financial effect of deploying to and controlling the cloud.

#### **Cloud Foundations (AWS)**

This module will provide students with a detailed overview of cloud concepts, AWS core services; and the pricing, security including the controls in the AWS environment and some of the products and features available with AWS to meet security objectives, architectural best practices for designing and operating reliable, secure, efficient and cost-effective systems in the cloud, and support for these core services.

#### **Hyper-V Fundamentals**

This module teaches the student to access either desktop-based virtualisation or server-based virtualisation. As technology has evolved, the need to create virtual systems to simulate the behaviour of a real environment has become a primary objective. In having a virtual environment, an information technology professional may use virtualisation to plan a server deployment, test an application or operating system update, as well as test software created in a development environment.

#### **Linux Operating System**

In this module students will examine the origins of the Linux operating system. They will look at the procedures necessary to install and configure Linux onto a computer, as well as logging in and out of Linux. In addition, students will be introduced to and become familiar with the GNOME desktop environment. They will develop skills and knowledge to enable them to use the powerful command line interface and explore files and directories. This module also deals with the role and function of the text editor, as well as working with directories and files using the Linux operating system terminal and commands. The final section of the module looks at developing skills to redirect input and output as well as controlling Linux operating system processes.



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## Module descriptors

### Year 1

#### **Personal Skills Development**

Personal Skills Development implies professional and personal growth in knowledge and skills. Personal Skills Development embraces a range of practical and transferable skills that can be applied within higher education and in the workplace. By conducting case studies, role play and real-life activities, the student should be able to improve their own learning, be involved in teamwork and be more capable of solving problems. The rationale behind this module is to expose the student to softer skills that are critical in the workplace and in higher education. This module attempts to encapsulate a range of key and common skills and deliver this information in a dynamic learning environment.

#### **Network+**

This module explores the diverse subject of networking, looking at types of networks, the structure of networks, how models explain how data travels over networks, the different media used to carry data, the different devices used to move data, the underlying principles of protocols, addressing schemes, services and standards, and the tools and techniques used to manage, monitor, troubleshoot and secure networking systems.

#### **Security+**

This module explores the diverse subject of security, looking at general security principles and terms, common security issues and the procedures for correcting them, as well as how attacks against systems and networks are carried out, their symptoms and their impact on individuals and organisations, as well as the countermeasures that can be implemented to mitigate them. Wired, wireless and virtualised communication and network infrastructure security, cloud computing security, organisational and operational security, cryptography techniques and physical and environmental controls will also be explored, along with how an organisation would manage and improve their security.

#### **Windows Server**

This module is for the student who wants to start a career as a junior network administrator and wants to operate and manage a given network and its systems and is seeking a grounding in the fundamentals of using and managing Windows Servers, or is already working as a network administrator and wants to fill in some gaps on fundamental Windows Server topics.