

Occupational Certificate: Cloud Administrator

SAQA: 102161 | NQF Level: 5 | Total Credits: 149 | Duration: 1 Year (2 Semesters)

Accreditation Authority: Quality Council for Trades and Occupations

Step into the dynamic world of cloud computing with the Occupational Certificate: Cloud Administrator, This Qualification equips you with essential skills in cloud platforms, network administration, cloud security and data management. Prepare to take on roles like Junior Cloud Administration, Cloud Solutions Technician, and Network Administrator,

Admission Requirements

To register for this qualification, candidates must meet one of the following criteria:

- ❖ National Certificate at NQF Level 3 or equivalent
- ❖ Recognition of Prior Learning (RPL) is available.

Qualification Structure

The qualification consists of Knowledge, Practical Skills, and Work Experience Modules, and work experience modules are divided over one year, providing a comprehensive understanding of Cloud Administration.

Qualification structured as follows:

Module	Description	NQF Level	Credits
SEMESTER 1			
Knowledge Modules			
KM-01	Introduction of Cloud Computing	4	8
KM-02	Cloud Computing Elements	4	8
KM-03	Containers, Cloud Native and Kubernetes	4	4
KM-04	Cloud Security, Risks, Vulnerabilities and Mitigation	4	3
KM-05	Data and Databases in the Cloud	4	5
Practical Modules			
PM-01	Conduct Effective Server Maintenance and Optimisation	4	8
PM-02	Monitor On-Demand Availability of Data Storage, Storage Capacity and Storage Services over the Internet	4	8
PM-05	Access and Visualise Structured Data Using Spreadsheets	4	8
Work Modules			
WM-01	On Demand Availability of Server Resources and Services over the Internet	4	20
WM-02	On-Demand Availability of Data Storage, Storage Capacity and Storage Services	4	16
SEMESTER 2			
Knowledge Modules			
KM-06	Fundamentals of Cloud Computing Platforms	4	3
KM-07	Introduction to Cloud Computing Governance ,Legislations and Ethics	4	1
KM-08	4IR and Future Skills	4	4
KM-09	Design Thinking Principles for Innovation	4	1
Practical Modules			
PM-03	Build a simple AI solution using Python	4	16
PM-04	Use Python Data Scraping to Populate Database Table in SQL	4	8
PM-06	Use Machine Learning to Build and AI Solution in Python	4	3
PM-07	Function Ethically and Effectively in the Workplace	4	20
Work Modules			
WM-03	Ensure of Availability and Reliability of Network connections according to Work-flow and Security protocols	4	20

Career Opportunities

Students for this qualification are equipped with the essential skills needed to excel in all industries. Upon completing this qualification, Students can pursue various career opportunities, including:

- ❖ Junior Cloud Administrator
- ❖ Cloud Solutions Architect
- ❖ Systems Administrator
- ❖ Network Administrator

Articulation Options

- ❖ Horizontal: Technical Support (NQF Level 4)
- ❖ Vertical: Artificial Intelligence Software Developer (NQF Level 6)
- ❖ Diagonal: Higher Certificate in AI or Cyber Security Fundamentals (NQF Level 5)