



Course Outline

CO:Cloud Administrator

Duration: 12 Months



SDP080126141758





Programme Title

Occupational Certificate:
Cloud Administrator

SAQA ID

118699

NQF Level

4

Minimum Credits

149

Entry Requirements

Grade11



COURSE OVERVIEW

The purpose of this qualification is to prepare a learner to function as a Cloud Administrator. A Cloud Administrator monitors, maintains, and troubleshoots networks of cloud platforms and computing resources thus ensuring the seamless delivery of all cloud services and maintains protocols to secure cloud environments against unauthorised access, threats, and other risks.

COURSE OUTCOMES

- Implement the cloud management service.
- Monitor and maintain specific elements of the cloud, cloud users, the cloud environment and overall cloud performance.
- Maintain security protocols to secure cloud environments against unauthorised access, threats, and other risks.

It's All Possible





MODULES

Knowledge Modules

Module ID	Title
KM-01	Introduction to Cloud Computing
KM-02	Cloud Computing Elements
KM-03	Containers, Cloud Native and Kubernetes
KM-04	Cloud Security, Risks, Vulnerabilities and Mitigation
KM-05	Data and Databases in the Cloud
KM-06	Fundamentals of Cloud Computing Platforms
KM-07	Introduction to Cloud Computing Governance, Legislation and Ethics
KM-08	4th Industrial Revolution (4IR) and Future Skills
KM-09	Design Thinking Principles for Innovation



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MODULES

Practical Skill Modules

Module ID	Title
PM-01	Conduct Effective Server Maintenance and Optimisation
PM-02	Monitor On-Demand Availability of Data Storage, Storage Capacity and Storage Services over the Internet
PM-03	Provide Cloud Network Administration and Support for Optimal Performance
PM-04	Ensure Integrity of the Cloud Ecosystem by Implementing Security Measures
PM-05	Access and Visualise Structured Data Using Spreadsheets
PM-06	Participate in a Design Thinking for Innovation Workshop
PM-07	Function Ethically and Effectively in the Workplace



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MODULES

Work Experience Modules

Module ID	Title
WM-01	On-Demand Availability of Server Resources and Services over the Internet
WM-02	On-Demand Availability of Data Storage, Storage Capacity and Storage Services over the Internet
WM-03	Ensure Availability and Reliability of Network Connection According to Workflow and Security Protocols