

INTENDED AUDIENCE

This course is designed for IT professionals who wish to develop cloud computing skills to enable them to move IT workloads to the cloud and integrate products and services from different providers and industries. Their focus is to ensure that cloud deployments are secure, that automation and orchestration are used effectively to bring business value from the cloud, and that costs are controlled through effective management of cloud vendors

PREREQUISITES

Before attending this course, delegates should have 24-36 months' experience with IT networking, network storage, and data center administration. Delegates should also have familiarity with any major hypervisor technology for server virtualization, basic knowledge of common cloud service models, and common cloud deployment models.

COURSE OBJECTIVES

In this course, students will deploy, test, secure, manage, optimize, and troubleshoot a cloud solution. Additionally, after the completion of this course, delegates will be able to:

- Prepare to deploy cloud solutions
- Deploy a pilot project
- Test a pilot project deployment
- Design a secure network for cloud deployment
- Determine CPU and memory sizing for cloud deployments
- Determine storage requirements for cloud deployments
- Plan Identity and Access Management for cloud deployments
- Analyse workload characteristics to ensure successful migration to the cloud
- Secure systems to meet access requirements
- Maintain cloud systems
- Implement backup, restore, and business continuity measures
- Analyse cloud systems for required performance
- Analyse cloud systems for anomalies and growth forecasting
- Troubleshoot deployment, capacity, automation, and orchestration issues
- Troubleshoot connectivity issues
- Troubleshoot security issues

COURSE CONTENT

Lesson 1: Preparing to Deploy Cloud Solutions

Lesson 2: Deploying a Pilot Project

Lesson 3: Testing Pilot Project Deployments

Lesson 4: Designing a Secure and Compliant Cloud Infrastructure

Lesson 5: Designing and Implementing a Secure Cloud Environment

Lesson 6: Planning Identity and Access Management for Cloud Deployments

Lesson 7: Determining CPU and Memory Sizing for Cloud Deployments

Lesson 8: Determining Storage Requirements for Cloud Deployments

Lesson 9: Analysing Workload Characteristics to Ensure Successful Migration

Lesson 10: Maintaining Cloud Systems

Lesson 11: Implementing Backup, Restore, Disaster Recovery, and Business Continuity Measures

Lesson 12: Analysing Cloud Systems for Performance
Lesson 13: Analysing Cloud Systems for Anomalies and Growth Forecasting
Lesson 14: Troubleshooting Deployment, Capacity, Automation, and Orchestration Issues

Lesson 15: Troubleshooting Connectivity Issues

Lesson 16: Troubleshooting Security Issues

ASSOCIATED CERTIFICATION AND EXAM

This course will prepare delegates to write the CompTIA CV0-003 international exam. Successfully passing this exam will result in the attainment of the CompTIA Cloud+ Certification.