

Module Title : **CompTIA Cloud+**

Duration : **5 days**

Course Overview

The CompTIA Cloud+ course will help the student with the knowledge and best practices required of IT practitioners working in cloud computing environments and who must understand and deliver cloud infrastructure.

Who Should Attend

This course is intended for experienced computer support professionals with a working knowledge of computer hardware, software, and operating systems to prepare for the CompTIA® Cloud+® (Exam CV0-001), or who wish to increase their knowledge and understanding of cloud technologies and acquire the required skills to prepare for a career in in that field

Course Outlines

Lesson 1: Preparing to Deploy Cloud Solutions: Describe Interaction of Cloud Components and Services

- Describe Interaction of Non-cloud Components and Services
- Evaluate Existing Components and Services for Cloud Deployment
- Evaluate Automation and Orchestration Options
- Prepare for Cloud Deployment

Lesson 2: Deploying a Pilot Project: Manage Change in a Pilot Project

- Execute Cloud Deployment Workflow
- Complete Post-Deployment Configuration

Lesson 3: Testing Pilot Project Deployments: Identify Cloud Service Components for Testing

- Test for High Availability and Accessibility
- Perform Deployment Load Testing
- Analyze Test Results

Lesson 4: Designing a Secure and Compliant Cloud Infrastructure: Design Cloud Infrastructure for Security

- Determine Organizational Compliance Needs

Lesson 5: Designing and Implementing a Secure Cloud Environment: Design Virtual Network for Cloud Deployment

- Determine Network Access Requirements

- Secure Networks for Cloud Interaction
- Manage Cloud Component Security
- Implement Security Technologies

Lesson 6: Planning Identity and Access Management for Cloud Deployments: Determine Identity Management and Authentication Technologies

- Plan Account Management Policies for the Network and Systems
- Control Access to Cloud Objects
- Provision Accounts

Lesson 7: Determining CPU and Memory Sizing for Cloud Deployments: Determine CPU Size for Cloud Deployment

- Determine Memory Size for Cloud Deployment

Lesson 8: Determining Storage Requirements for Cloud Deployments: Determine Storage Technology Requirements

- Select Storage Options for Deployment
- Determine Storage Access and Provisioning Requirements
- Determine Storage Security Options

Lesson 9: Analyzing Workload Characteristics to Ensure Successful Migration: Determine the Type of Cloud Deployment to Perform

- Manage Virtual Machine and Container Migration
- Manage Network, Storage, and Data Migration

Lesson 10: Maintaining Cloud Systems: Patch Cloud Systems

- Design and Implement Automation and Orchestration for Maintenance

Lesson 11: Implementing Backup, Restore, Disaster Recovery, and Business Continuity Measures: Back Up and Restore Cloud Data

- Implement Disaster Recovery Plans
- Implement Business Continuity Plans

Lesson 12: Analyzing Cloud Systems for Performance: Monitor Cloud Systems to Measure Performance

- Optimize Cloud Systems to Meet Performance Criteria

Lesson 13: Analyzing Cloud Systems for Anomalies and Growth Forecasting: Monitor for Anomalies and Resource Needs

- Plan for Capacity
- Create Reports on Cloud System Metrics

Lesson 14: Troubleshooting Deployment, Capacity, Automation, and Orchestration Issues: Troubleshoot Deployment Issues

- Troubleshoot Capacity Issues
- Troubleshoot Automation and Orchestration Issues

Lesson 15: Troubleshooting Connectivity Issues: Identify Connectivity Issues

- Troubleshoot Connectivity Issues

Lesson 16: Troubleshooting Security Issues: Troubleshoot Identity and Access Issues

- Troubleshoot Attacks
- Troubleshoot Other Security Issues