



Train. Employ. Empower.

## Cloud+

Price  
**\$1,495.00**

Duration  
**5 Daytime Classes  
or  
10 Evening Classes**

Delivery Methods  
**Virtual, Private  
Group,**

### **CAREER SKILLS+™**

In this course, you will learn how to implement, maintain, and deliver cloud technologies including network, storage, and virtualization technologies to create cloud solutions.

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#### **Who Should Attend**

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. This course is also designed for students who are preparing to take the CompTIA Cloud+ certification exam CV0-003, or who plan to use Cloud+ as the foundation for more advanced cloud certifications or career roles.

#### **Course Prerequisites**

There are no prerequisites for this course.

#### **Course Objectives**

On course completion, participants 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  
Analyze 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  
Analyze cloud systems for required performance  
Analyze cloud systems for anomalies and growth forecasting  
Troubleshoot deployment, capacity, automation, and orchestration issues  
Troubleshoot connectivity issues  
Troubleshoot security issues

## Agenda

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  
2 - DEPLOYING A PILOT PROJECT  
Manage Change in a Pilot Project  
Execute Cloud Deployment Workflow  
Complete Post-Deployment Configuration  
3 - TESTING PILOT PROJECT DEPLOYMENTS  
Identify Cloud Service Components for Testing  
Test for High Availability and Accessibility  
Perform Deployment Load Testing  
Analyze Test Results  
4 - DESIGNING A SECURE AND COMPLIANT CLOUD INFRASTRUCTURE  
Design Cloud Infrastructure for Security  
Determine Organizational Compliance Needs

## 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

## 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

## 7 - DETERMINING CPU AND MEMORY SIZING FOR CLOUD DEPLOYMENTS

- Determine CPU Size for Cloud Deployment
- Determine Memory Size for Cloud Deployment

## 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

## 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

## 10 - MAINTAINING CLOUD SYSTEMS

- Patch Cloud Systems
- Design and Implement Automation and Orchestration for Maintenance

## 11 - IMPLEMENTING BACKUP, RESTORE, DISASTER RECOVERY, AND BUSINESS CONTINUITY MEASURES

- Back Up and Restore Cloud Data
- Implement Disaster Recovery Plans
- Implement Business Continuity Plans

## 12 - ANALYZING CLOUD SYSTEMS FOR PERFORMANCE

- Monitor Cloud Systems to Measure Performance
- Optimize Cloud Systems to Meet Performance Criteria

## 13 - ANALYZING CLOUD SYSTEMS FOR ANOMALIES AND GROWTH FORECASTING

- Monitor for Anomalies and Resource Needs
- Plan for Capacity

- Create Reports on Cloud System Metrics

## 14 - TROUBLESHOOTING DEPLOYMENT, CAPACITY, AUTOMATION, AND ORCHESTRATION ISSUES

- Troubleshoot Deployment Issues
- Troubleshoot Capacity Issues

Troubleshoot Automation and Orchestration Issues  
15 - TROUBLESHOOTING CONNECTIVITY ISSUES  
Identify Connectivity Issues  
Troubleshoot Connectivity Issues  
16 - TROUBLESHOOTING SECURITY ISSUES  
Troubleshoot Identity and Access Issues  
Troubleshoot Attacks  
Troubleshoot Other Security Issues



Don't. Break. Things.

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