APPLIED TECHNOLOGY ACADEMY

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CompTIA Cloud+ Training

CompTIA Authorized Training · Applied Technology Academy

CompTIA Cloud+ maps to real-world demands of cloud operations job roles, validating essential skills necessary for excelling in cloud environments. It is the only cloud certification on the market that confirms the technical and hands-on skills necessary for secure cloud operations across all platforms. CompTIA Cloud+ maps to four NICE/DCWF work roles: Network Operations Specialist, Systems Administrator, Enterprise Architect and Security Architect.

LEVEL	DURATION	EXAM	EXPERIENCE	AVERAGE SALARY
Intermediate	**5 Days**	**CV0-004**	**2 years: IT**	**$90,520**

Course Overview

The CompTIA Cloud+ validates that the successful candidate has the knowledge and skills required to:

- Understand cloud architecture and design concepts.
- Implement and maintain a secure cloud environment.
- Successfully provision and configure cloud resources.

Demonstrate the ability to manage operations throughout the cloud environment life cycle using observability, scaling, and automation.

- Understand fundamental DevOps concepts related to deployment and integration.
- Troubleshoot common issues related to cloud management.
- Acquired Skills
- Cloud Architecture - Analyze the different cloud models to design the best solution to support business requirements.
- Deployment - Examine system requirements to successfully execute workload migrations to the cloud.

Operations - Manage and optimize cloud operations, including automation, scaling, backup and recovery strategies, and lifecycle management of cloud resources.

Security - Implement comprehensive security measures, including vulnerability management, compliance adherence, and the deployment of security controls to safeguard cloud environments.

DevOps Fundamentals - Understand source control, continuous integration/continuous deployment (CI/CD) pipelines, system integration, and the use of various DevOps tools.

Troubleshooting - Troubleshoot deployment, network and security issues related to cloud implementations.

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Course Outline

- Module 1: Understanding Cloud Architecture Concepts
- Lesson 1.1: Recognize Cloud Concepts and Service Models
- Lesson 1.2: Recognize Cloud Terms
- Lesson 1.3: Technologies in the Cloud
- Lesson 1.4: Troubleshoot the Cloud Environment
- Module 2: Planning Cloud Services
- Lesson 2.1: Cloud-native Design
- Lesson 2.2: Cloud Deployment Models
- Lesson 2.3: Cloud Deployment Strategies
- Module 3: Provisioning and Migrating Cloud Resources
- Lesson 3.1: Provision Cloud Resources
- Lesson 3.2: Aspects of Cloud Migration
- Lesson 3.3: Cloud Migration Considerations
- Module 4: Comparing Cloud Storage
- Lesson 4.1: Storage Resources and Technologies
- Module 5: Troubleshooting Deployment Issues and Cost
- Lesson 5.1: Troubleshoot Deployment and Migration Issues
- Lesson 5.2: Cost Considerations Related to Cloud Usage
- Module 6: Using Virtualization and Databases
- Lesson 6.1: Virtualization Concepts
- Lesson 6.2: Containerization Concepts
- Lesson 6.3: Database Concepts
- Module 7: Comprehending Cloud Networking
- Lesson 7.1: Cloud Networking Concepts
- Lesson 7.2: Network Functions
- Lesson 7.3: Network Components
- Lesson 7.4: Network Services
- Lesson 7.5: Cloud Network Services
- Lesson 7.6: Troubleshoot Network Issues
- Module 8: Automating Cloud Resources
- Lesson 8.1: Deploy and Configure Cloud Resources Using Code
- Lesson 8.2: Continuous Integration Continuous Deployment Pipelines

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- **Lesson 8.3: Tools Used in DevOps Environments**
- **Lesson 8.4: Source Control Concepts**
- **Lesson 8.5: Scripting**
- **Lesson 8.6: Integration of Systems**
- **Module 9: Implementing Security Management**
- **Lesson 9.1: Identity and Access Management Concepts**
- **Lesson 9.2: Security Controls in the Cloud**
- **Lesson 9.3: Vulnerability Management Concepts**
- **Lesson 9.4: Monitoring Suspicious Activities to Identify Common Attacks**
- **Module 10: Comprehending Security Compliance and Troubleshooting**
- **Lesson 10.1: Aspects of Compliance and Regulation**
- **Lesson 10.2: Security Best Practices**
- **Lesson 10.3: Troubleshooting Security Issues**
- **Module 11: Implementing Performance and Monitoring**
- **Lesson 11.1: Optimize Workloads Using Cloud Resources**
- **Lesson 11.2: Configure Appropriate Scaling Approaches**
- **Lesson 11.3: Configure Resources to Achieve Observability**
- **Lesson 11.4: Managing the Life Cycle of Cloud Resources**
- **Module 12: Managing Disaster Recovery and Business Continuity**
- **Lesson 12.1: Backup and Recovery Methods**
- **Lesson 12.2: Service Availability Concepts**

Intended Audience

- System Administrator
- Systems Engineer
- Network Administrator
- Network Engineer
- Cloud Developer
- Cloud Specialist
- Project Manager, Cloud Computing Services
- Cloud Engineer
- Manager, Data Center SAN
- Business Analyst, Cloud Computing

Prerequisites

CompTIA Network+ and Server+ and an additional 2-3 years of experience in systems administration or networking.

Follow-On Courses

- SANS Cloud Security Essentials
- Certificate of Cloud Security Knowledge (CCSK)
- Certified Cloud Security Professional (CCSP)
- Cloud Operations on AWS
- AWS Cloud Practitioner and Architecting on AWS

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.