APPLIED TECHNOLOGY ACADEMY

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CompTIA AutoOps+ Training

CompTIA Authorized Training · Applied Technology Academy

CompTIA AutoOps+ validates skills to automate, secure, and optimize IT operations across cloud and hybrid environments, bridging traditional IT roles with modern DevOps practices using IaC and CI/CD toolchains.

LEVEL	DURATION	EXAM	EXPERIENCE	AVERAGE SALARY
Intermediate	**5 Days**	**AT0-001**	**2-3 years: IT operations**	**$99,130**

Course Overview

CompTIA AutoOps+ validates your skills to automate, secure, and optimize IT operations across cloud and hybrid environments. As part of CompTIA's new Expansion Series, this course is designed to augment your core IT competencies with specialized expertise in automation, scripting, and Infrastructure as Code (IaC), allowing you to bridge traditional IT roles with modern DevOps practices.

Course Outline

- **Module 1: Automation Coding Concepts**
  - Use code to support automation: Write, test, and maintain automation scripts using variables, functions, and loops to streamline IT operations.
  - Apply source control techniques: Version and manage code using Git commands, branching strategies, and semantic versioning.
  - Explain concepts related to Infrastructure as Code (IaC): Define and apply IaC principles such as reusability, immutability, and idempotency.
  - Troubleshoot common issues with the code life cycle: Identify and resolve syntax, runtime, and merge errors that occur during development and deployment.
- **Module 2: System Configuration**
  - Use configuration management techniques: Deploy solutions and manage configuration drift using automation tools and state management.
  - Compare and contrast approaches to automation: Distinguish between remote vs. local, declarative vs. imperative, and push vs. pull methods.
  - Interact with RESTful systems: Perform create, read, update, and delete (CRUD) operations using REST APIs and associated tools.
  - Troubleshoot common configuration issues: Resolve API communication failures, certificate problems, and syntax errors in configuration files.
- **Module 3: Continuous Integration**
  - Explain environmental factors related to CI management: Apply concepts of secrets management, artifact management, and task runners.

  - Explain workflow management concepts in CI: Use orchestration, dependency handling, and automated rollback techniques to manage CI pipelines.
  - Analyze configurations to manage basic automation pipelines: Configure hooks, triggers, and pipeline definitions using CI tools such as Jenkins or GitHub Actions.
- **Module 4: Continuous Delivery**
  - Implement techniques of continuous delivery: Apply deployment strategies such as canary, blue-green, rolling, and in-place releases.
  - Explain concepts related to application service levels: Interpret SLOs, SLAs, uptime, MTTR, and feedback loops in delivery environments.
  - Compare and contrast methods to secure connections to providers: Configure CLI, SDK, and Identity & Access Management (IAM) settings to protect automated delivery pipelines.

Intended Audience

- Cloud Administrator
- Systems Administrator
- Linux Systems Administrator
- Network Administrator
- DevOps Analyst
- Automation Engineer

Prerequisites

Recommended experience: 2–3 years in a core IT operations role (e.g., Network+, Linux+, or Cloud+ level knowledge recommended).

Follow-On Courses

- AIOps Foundation
- AI/ML Specialist

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.