CompTIA AutoOps+

Category: Infrastructure & IT Operations | **Vendor:** CompTIA

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

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.

About This Course

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.

Who Should Attend

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

Prerequisites & Entry Requirements

General Prerequisites:

2–3 years in a core IT operations role (e.g., network, cloud, or systems administrator); Network+, Linux+, Cloud+, or Server+ recommended, or similar certifications.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Use scripting and automation to streamline IT workflows and manage enterprise systems efficiently. Automate configuration, provisioning, and maintenance using infrastructure-as-code and modern toolchains. Build and manage CI pipelines to automate testing, ensure quality, and improve collaboration between teams. Implement secure, compliant delivery pipelines that enable rapid, reliable deployment and operational efficiency.

Detailed 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.

Frequently Asked Questions

Q: What delivery options are available for CompTIA AutoOps+?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day CompTIA AutoOps+ course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the CompTIA AutoOps+ training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for CompTIA AutoOps+?

Yes, we provide corporate training, dedicated training, and closed classes for CompTIA AutoOps+. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for CompTIA AutoOps+?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your CompTIA AutoOps+ training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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