Automating Networks Using Cisco Platforms Training

Duration: **5 Day**

BILGINC IT Academy
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Network automation is transforming how organisations deploy, manage, and secure modern infrastructure. This five-day instructor-led course introduces the skills required to automate Cisco-based environments using modern software development practices, APIs, Python, and model-driven programmability.

Throughout the course, learners explore how applications interact with networks, how APIs enable automation across Cisco platforms, and how infrastructure can be managed more efficiently through scripting and automation workflows. Practical labs reinforce each topic, enabling learners to apply their knowledge using real-world scenarios and industry-standard development tools.

The course also prepares learners for the Cisco 200-901 CCNAAUTO v1.1 certification exam while building the practical skills needed to develop, deploy, and maintain automated network solutions. By the end of the course, learners will understand how software development, automation, security, and networking combine to support modern digital transformation initiatives.

Prerequisites

There are no formal prerequisites for this course. However, learners will benefit from having:

- Basic computer literacy
- Experience navigating a PC operating system
- Familiarity with internet technologies
- Practical experience using Python or another programming language
- A basic understanding of networking concepts

Learners without programming experience are encouraged to complete an introductory Python course before attending to maximise the value of the hands-on exercises.

Target audience

This course is designed for professionals who want to develop automation skills for modern Cisco environments, including:

- Network automation engineers
- Network engineers transitioning into automation
- Software developers working with networking technologies
- Infrastructure architects
- System integration programmers
- Technical professionals responsible for automating network operations
- IT professionals preparing for the Cisco CCNAAUTO certification

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What You Will Learn

By the end of this course, learners will be able to:

- Explain the role of APIs within modern network automation solutions.
- Describe software development methodologies, workflows, and version control practices.
- Use HTTP and REST principles when interacting with Cisco APIs.
- Identify the automation capabilities available across Cisco networking platforms.
- Explain how applications communicate across enterprise networks.
- Develop Python scripts to automate common networking tasks.
- Implement model-driven programmability techniques to simplify infrastructure management.
- Describe application deployment models and continuous development pipelines.
- Apply scripting and automation tools to configure and manage Cisco infrastructure.
- Identify common security considerations when developing automated solutions.
- Use containerisation technologies to support local software development and testing.
- Prepare confidently for the Cisco 200-901 CCNAAUTO certification exam.