



AutoCor — Course Syllabus

CCNP and CCIE Automation Certification — Core Exam

EXAM CODE	VERSION	STATUS	DURATION
350-901	v2.0	Current	120 minutes

Overview

AutoCor is the core exam for the CCNP and CCIE Automation certifications. It certifies a candidate's knowledge of network automation systems development and design, including infrastructure as code, operations, and AI in automation, across technologies such as Cisco IOS XE, ACI, Meraki, Catalyst Center, SD-WAN, ISE, and Webex.

Associated with: CCNP Automation and CCIE Automation Certification

Exam Domains

30% 1.0 Network Automation

- Construct a network automation solution with Ansible to manage VLANs, OSPF, asset management, interface settings, and ACLs
- Construct a network automation solution with Terraform for the same configuration types
- Construct a network automation solution with RESTCONF (RFC 8040), given the YANG model
- Construct a network automation solution with Python for infrastructure configuration
- Select the network automation approach to meet technical/business requirements (IaC framework, low-code/no-code, custom applications)
- Construct a network automation solution that consumes REST APIs, including pagination, complex auth workflows, rate limiting, and error handling

30% 2.0 Infrastructure as Code

- Use version control operations with Git
 - Merge a branch including squash and conflict resolution
 - git cherry-pick
 - git reset
 - git checkout
 - git revert
- Diagnose a GitLab CE CI/CD pipeline failure (missing dependency, incompatible versions, failed tests)
- Construct a GitLab CE CI/CD pipeline to deploy a network automation solution
 - Build
 - Prevalidation
 - Deploy

■ Post-validation

- Construct a network simulation with Cisco Modeling Labs (CML) to test the automation solution
- Interpret a Docker Compose file including services, networks, volumes, and links
- Integrate a source of truth into a network automation solution
- Construct a YAML or JSON representation of a network configuration given a YANG-based data model

20% 3.0 Operations

- Describe architectural components of model-driven telemetry
- Implement a logging strategy targeting destinations such as syslog or webhooks
- Diagnose problems with network automation given logs and event output
- Implement change validation for a network automation solution using pyATS CLI tools
- Describe the process to obtain and deploy CA-signed TLS certificates
- Implement secure coding practices (input validation, authentication, secret management)

20% 4.0 AI in Automation

- Describe the benefits and risks of AI-assisted code development (data privacy, IP ownership, code validation)
- Interpret the security risks in a given AI-based network automation solution
- Construct an MCP server to provide network information to an AI agent using Python FastMCP
- Construct a conversational agent that leverages LLMs for network automation
- Evaluate the accuracy of AI recommendations on a network automation solution

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