Automating and Programming Cisco Enterprise Solutions (ENAUTO)

ID ENAUTO **Preis** CHF 4'550.– (exkl. MwSt.) **Dauer** 5 Tage

Zielgruppe

- Network Engineers
- Systems Engineers
- Wireless Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Network Administrators
- Wireless Design Engineers
- Network Managers
- Sales Engineers
- Account Managers

Empfohlenes Training für die Zertifizierung zum

Cisco Certified Network Professional Enterprise (CCNP ENTERPRISE)
Cisco Certified Automation Professional (CCNP AUTOMATION)

Voraussetzungen

There are no formal prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Basic programming language concepts
- Basic understanding of virtualization
- Ability to use Linux and CLI tools, such as SSH and bash
- CCNP level core networking knowledge
- Foundational understanding of Cisco Catalyst Center, Meraki, and Cisco Catalyst SD-WAN

These skills can be found in the following Cisco Learning Offerings:

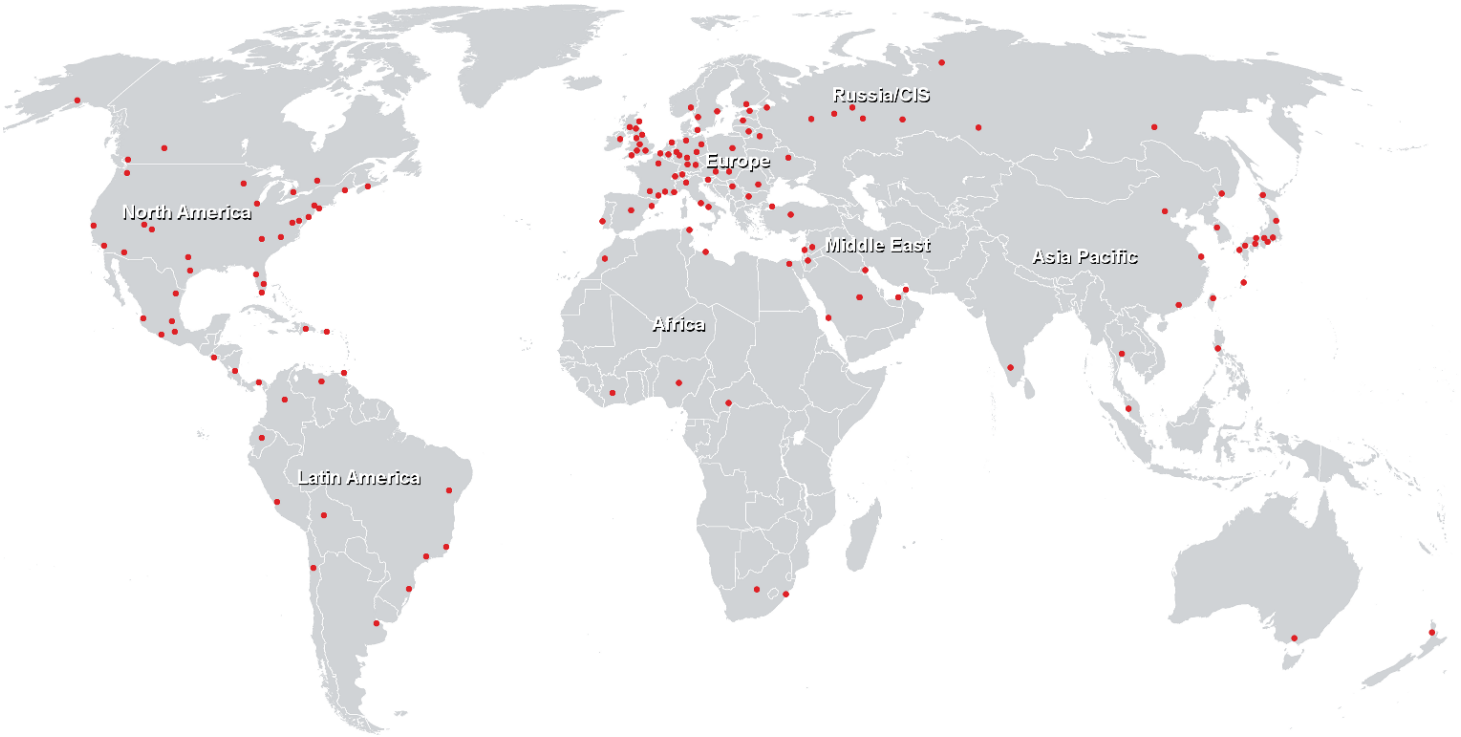
- Implementing and Administering Cisco Solutions (CCNA)
- Introducing Automation for Cisco Solutions (CSAU)
- Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)

Kursziele

- Explain the need for data models for network automation
- Explain how to use Ansible and YANG Suite tools for effective network automation
- Describe Python and Netmiko as tools for CLI automation and explain how to automate VLANs, routing protocols, policies, and VPNs
- Introduce NETCONF and RESTCONF as model-driven protocols, explain their operations, datastores, and workflows, and compare where each is most effective
- Monitor configuration and operational data with NETCONF and RESTCONF, troubleshoot connectivity and model issues, and interpret errors for faster resolution
- Introduce Ansible for Cisco configuration management to detect drift, validate compliance, maintain a source of truth, and apply resource modules with safe rollout and rollback recovery
- Describe how Cisco IOS EEM automates tasks with events and policies, Guest Shell provides a secure Linux container for scripts, and ZTP creates the initial configuration
- Explore how to perform Day-0 operations with PnP in Cisco Catalyst Center
- Explore options for configuration management with Cisco Catalyst Center
- Explore advanced features of configuration templates with Jinja templates
- Learn about managing controller-based configuration with Ansible
- Learn about security automation
- Learn about techniques for troubleshooting authentication with the REST APIs of Cisco controllers
- Learn how to test and validate automation deployed on Cisco Catalyst Center and Cisco Catalyst SD-WAN Manager
- Learn how to use Catalyst Center and SD-WAN APIs to automate Software Image Management
- Learn how to use APIs to monitor network health with Cisco Controllers
- Learn how to use streaming telemetry and webhooks to monitor network health on Course Cisco Catalyst Center and Cisco Catalyst SD-WAN Manager
- Explain how to use AI capabilities in Cisco Catalyst Center, Cisco Catalyst SD-WAN Manager, and Meraki dashboard
- Explain how to use AI-assisted code development for network automation
- Explore security risks in AI-based network automation

- Explain the deployment of MCP servers and clients, and Python FastMCP support for AI agents

Weltweite Trainingscenter





Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, https://www.flane.ch