

Implementing Automation for Cisco Service Provider Solutions (SPAUI)

Price: 750

Duration 365 Days

Delivery Methods eLearning

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Overview

The duration of this course is 20 hours, and it is eligible for 24 CE credits towards recertification.

The Implementing Automation for Cisco Service Provider Solutions (SPAUI) training prepares you to implement and support automation solutions in a Service Provider network infrastructure, using network programmability principles, protocols, tools, and mechanisms. Through a combination of lessons and hands-on labs, you will learn to deploy, configure, monitor, and operate Service Provider network environments using modern data models. These models allow you to represent operational data and new network management protocols to administer hundreds or thousands of devices in a single operation, replacing traditional, time-consuming, error prone, device-by-device Command Line Interface (CLI) management. The training also introduces powerful automation solutions that can streamline network operations.

This training covers Yet Another Next Generation (YANG) data models and validation tools, Representational State Transfer Configuration Protocol RESTCONF and Network Configuration Protocol (NETCONF) management protocols, model-driven telemetry with Google Remote Procedure Call (gRPC) and Google Network Management Interface (gNMI), traffic automation with XR Transport Control (XTC), Secure Shell (SSH)-based automation tools like NetMiko and Ansible, orchestration provided by Network Services Orchestration (NSO), Network Function Virtualization (NFV) lifecycle management with Elastic Services Controller (ESC), and network operations

automation with WAN Automation Engine (WAE).

This training prepares you for the Automating and Programming Cisco® Service Provider Solutions (300-535 SPAUTO) v1.0 exam. If passed, you earn the Cisco Certified DevNet Specialist – Service Provider Automation and Programmability certification and satisfy the concentration exam requirements for the Cisco Certified Network Professional (CCNP) Service Provider and Cisco Certified DevNet Professional certifications. Introducing Automation for Cisco Solutions (CSAU) is required prior to enrolling in this training because it provides crucial foundational knowledge essential to success.

How You'll Benefit

This training will help you:

- Use network programmability to scale and streamline Service Provider network infrastructure
- Gain hands-on experience in using modern data models to manage Service Provider network infrastructure

Who Should Enroll

- Network Administrators
- Network Architects
- Network Designers
- Network Engineers
- Network Managers
- Network Operations Center (NOC) Personnel
- Network Supervisors

Learning Path Objectives

- Use NETCONF and RESTCONF programmability protocols on Cisco devices
- Describe and use tools to validate YANG data models on Cisco devices
- Describe and configure model-driven telemetry on Cisco devices
- Describe and configure network traffic automation with Cisco XTC
- Describe and use network automation tools that utilize SSH
- Automate service provider network configuration with Cisco NSO
- Describe how to automate virtualized resources with Cisco ESC
- Describe how to automate service provider WAN with Cisco WAE

Learning Path Prerequisites

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

- CCNP equivalent level of knowledge for Routing and Switching (R and S)
- Cisco Internetworking Operating System (IOS XE) and Cisco IOS XR working experience
- SP Operations experience with routing, Multi-Protocol Label Switching (MPLS) and Virtual Private Network (VPN) Solutions

- Network Programmability Basics (Network Programming Foundations, APIs and Protocols, Network Model Driven APIs and Protocols, Configuration Management with Ansible, Service Provider Network Automation workflows)

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FAQ

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What is your late policy?

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What happens when I finish my class?

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.