

Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU)

Duration: 16.00 hours (2 days)

13.0 CPD Hours

Rating: ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The Introducing Automation for Cisco Solutions (CSAU) v1.1 course gives you a broad overview of network automation skills. Through a combination of lecture and hands-on labs, you will learn the fundamentals of automation such as working on model-driven programmability solutions with Representational State Transfer Configuration Protocol (RESTCONF) and Network Configuration Protocol (NETCONF) protocols. The course also covers data formats and types, including Extensible Markup Language (XML), JavaScript Object Notation (JSON), Yaml Ain t Markup Language (YAML), and Yet Another Next Generation (YANG), and their value in network automation, along with DevOps tools such as Ansible and Git.

About This Course

The Introducing Automation for Cisco Solutions (CSAU) v1.1 course gives you a broad overview of network automation skills. Through a combination of lecture and hands-on labs, you will learn the fundamentals of automation such as working on model-driven programmability solutions with Representational State Transfer Configuration Protocol (RESTCONF) and Network Configuration Protocol (NETCONF) protocols. The course also covers data formats and types, including Extensible Markup Language (XML), JavaScript Object Notation (JSON), Yaml Ain t Markup Language (YAML), and Yet Another Next Generation (YANG), and their value in network automation, along with DevOps tools such as Ansible and Git.

Who Should Attend

This course is designed primarily for customer engineers and systems engineers in the following job roles:

Automation architect

Automation engineer

Consulting systems engineer

DevOps engineer

Network administrator

Network architect

Network consulting engineer

Network design engineer

Network engineer

Network operator

Network reliability engineer

Sales engineer

Site reliability engineer

Systems engineer

Technical solutions architect

Learning Outcomes

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

After taking this course, you should be able to:

Articulate the role network automation and programmability play in the context of end-to-end network management and operations

Define and differentiate between waterfall and agile software development methodologies

Interpret and troubleshoot Python scripts with fundamental programming constructs built for network automation use cases

Describe how DevOps principles, tools, and pipelines can be applied to network operations

Understand the role of network automation development environments and associated technologies such as Python virtual environments, Vagrant, and Docker

Understand and construct HTTP-based API calls to network devices

Articulate the differences among and common use cases for XML, JSON, YAML, and protobuf

Construct and interpret Python scripts using the Python requests module to automate devices that have HTTP-based APIs

Understand the role YANG plays in network automation

Understand that a number of tools exist to simplify working with YANG models

Describe the functionality of RESTCONF and NETCONF and the differences between them

Construct Ansible playbooks to configure network devices and retrieve operational state data from them

Build Jinja2 templates and YAML data structures to generate desired state configurations

Additional Course Details

Nexus Humans Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU)?

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
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Q: How many CPD hours does this course provide?

The 2-day Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU)?

Yes, we provide corporate training, dedicated training, and closed classes for Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU). 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 Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU)?

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 **PENPALS** when booking your Cisco Introducing Automation for Cisco Solutions v1.1 (CSAU) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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