SIP Trunk Operations (DTSIP)

Price: 4295

Duration: 5 days

Delivery Methods: Virtual

Overview

SIP Trunk Operations (DTSIP) is a 5-day instructor-led course designed for Cisco collaboration administrators seeking in-depth knowledge of SIP protocol operations within Cisco's collaboration deployments.

This updated course offers new tools and labs to enhance skills in advanced troubleshooting, automation, and real-world problem-solving. With a focus on the latest Cisco Unified Communications Manager version 15, participants will explore modern practices, such as SIP trace analysis, AI-powered solutions, and DevOps programmability. In addition to mastering traditional SIP technologies, participants will gain the foundational knowledge required to configure Cisco Unified Border Element (CUBE) for enterprise PSTN access and Webex Calling.

New Content and Labs

- **In-depth SIP Trace Analysis**: Learn to use Wireshark, RTMT, and TranslatorX for advanced SIP message tracing and troubleshooting.
- **AI-Enhanced Troubleshooting:** Use AI tools like ChatGPT to analyze SIP debug outputs, interpret call traces, and streamline troubleshooting processes.
- **DevOps with Cisco CUBE:** Apply AI to create Ansible scripts for automating Cisco Session Border Controller (CUBE) deployments, integrating DevOps practices into collaboration environments.
- **Hands-On URI Call Routing:** Explore the advanced configuration of SIP URI dialing, enabling efficient call routing across CUCM clusters and Cisco CUBEs.
- **SIP Troubleshooting Tools and Techniques:** Gain expertise in leveraging diagnostic tools like Wireshark and TranslatorX to debug and analyze SIP traces effectively.

- **Foundations for Webex Calling on CUBE:** Gain an overview of the key concepts involved in using CUBE as a local gateway for Webex Calling.

The course starts by analyzing SIP Request and Response messages, including the role and purpose of SDP offers and answers. Topics such as SIP early offer and early media are covered, with practical insights into the behavior and capabilities of CUCM SIP trunks. Participants will explore headers within SIP messages, along with best practices for configuring SIP profiles on CUCM for both trunk and endpoint configurations.

The course continues with SIP URI dialing, where participants learn to use ILS, GDPR, and SME servers for dynamic dial plan distribution. Labs introduce advanced CUBE topics, including the use of E.164 pattern maps, server groups, and URI call routing for optimizing call handling. Participants will also implement Voice Translation Profiles and Dial Peer Groups, along with Provisioning Policies to streamline outbound dial-peer selection.

Throughout the course, participants will engage in real-world troubleshooting labs using Wireshark, RTMT, and TranslatorX, learning how to analyze SIP debugs and traces. A final lab challenges participants to implement an end-to-end SIP solution across multiple CUCM clusters and Cisco CUBEs, mirroring real-world deployments and problem-solving scenarios

Prerequisites

To fully benefit from this course, students should have the following prerequisite skills and knowledge:

- Basic knowledge of Cisco Unified Communications Manager (CUCM)
- Familiarity with networking concepts and protocols
- CCNA Collaboration or equivalent knowledge

Target Audience

This course is intended for students who have general knowledge about:

- Cisco Unified Communications Manager (CUCM)
- Professionals with CCNA Collaboration and/or CCNP Collaboration Certification
- Customers and partners managing Cisco SIP solutions
- IT teams supporting Webex Calling and local gateways
- DevOps professionals automating Cisco CUBE deployments
- AI users applying tools like ChatGPT for SIP troubleshooting

Course Schedule

Date	Time	Price	Options
07/20/2026	09:00 AM - 05:00 PM CT	4,295.00	Buy Now Enroll

Why Professional Choose TOPTALENT?

Dedicated Texas-Based Support

Get assistance every step of the way from our **Texas-based team**, ensuring your training experience is hassle-free and aligned with your goals.

3000+ Curated Professional Courses

Access an extensive portfolio of over 3000 courses across IT, Business Application and Leadership – Designed to meet evolving Industry demands

95% Client Approval Rating

Trusted by professionals nationwide our 95% approval rating reflects consistent quality, measurable impact and exceptional service.

Certified Industry Instructor

Learn from professionaly certified experts with real world experience and a proven commitment to learner success.

For questions

call:

(469) 721-6100

Email:

info@toptalentlearning.com

Find More Training

FAQ

What if I have to reschedule my class due to conflict?

Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to info@toptalentlearning.com to avoid rescheduling penalties.

How do I enroll for this class?

Please contact our team at 469-721-6100; we will gladly guide you through the online purchasing process.

What happens once I purchase a class?

You will receive a receipt and an enrollment confirmation sent to the email you submitted at purchase. Your enrollment email will have instructions on how to access the class. Any additional questions our team is here to support you. Please call us at 469-721-6100.

What is your late policy?

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

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.