



## TRAINING OFFERING

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# SD-WAN with Contrail Service Orchestration (SD-CSO)

CODE:	LENGTH:	PRICE:
JUN_SD-CSO	3 day(s)	£2,395.00

## Description

This three-day course is designed to provide students with the knowledge required to work with the Juniper Contrail Service Orchestration solution.

Students will gain in-depth knowledge of how to use Contrail Service Orchestration (CSO) and SRX Series devices to instantiate SD-WAN, standalone NGFW, and brownfield NGFW deployments of the Juniper Networks solution.

Through demonstrations and hands-on labs, students will gain experience with features of each of these deployments.

This course is updated on a monthly cadence, so that the course reflects the latest CSO release.

The SD-WAN with Contrail Service Orchestration (SD-CSO) course is an advanced level course. Relevant Juniper Product

• NFX Series • SRX Series • VMX/VSRX • CSO Contrail Services Orchestration

## Objectives

- Describe a traditional enterprise network.
- Explain the purpose of Contrail Service Orchestration.
- Describe the differences between each CSO use case.
- Describe the basic features of the CSO portals.
- Describe how to add a new tenant to CSO.
- Navigate the CSO customer portal.
- Describe the SD-WAN deployment model.
- Provide an overview of the SD-WAN workflow.
- Implement enterprise intent-based policies.
- Configure SLA profiles and SD-WAN policies.
- Instantiate an SD-WAN topology using CSO and SRX Series devices.
- Describe the NGFW deployment model.
- Describe the workflow for the standalone NGFW deployment.
- Describe the Stage 1 configuration of the SRX Series device created by CSO.
- Describe how to implement intent-based policy using CSO.
- Instantiate a standalone NGFW site using CSO and SRX Series devices.
- Describe the workflow for the brownfield NGFW deployment.
- Describe how to add a brownfield NGFW to CSO.
- Describe the available RBAC features.
- Describe the day one operational features.
- Describe the monitoring features.
- Generate reports.

## Audience

This course benefits individuals responsible for working with software-defined networking solutions in service provider and enterprise environments, particularly those focused on SD-WAN.

## Prerequisites

- Basic TCP/IP skills;
- General understanding of software defined networking;
- Basic understanding of the Junos operating system; and
- Attendance of the Juniper Cloud Fundamentals (JCF) course prior to attending this class

## Programme

Day 1 Course Introduction Introduction to Contrail Service Orchestration • SDN/NFV Overview • Today's Enterprise Network • Juniper's CSO Solution Overview CSO User Interfaces • Basic Navigation • Administrator Portal Walkthrough • Adding a Tenant • Customer Portal Walkthrough • Verifying the State of CSO Lab 1: CSO User Interface SD-WAN • Contrail SD-WAN Deployment Model • SecureOAM • Dynamic VPN • AppQoE • Intent-Based Policies • SD-WAN SLA Policies  
Day 2 SD-WAN Configuration • SD-WAN Deployment Workflow • Adding OAM Hubs • Adding Enterprise Hubs • Adding Spoke Sites • Adding Licenses and IPD Signatures • Configuring Intent-Based Firewall Policies • Configuring Application Routing and SLA Profiles Lab 2: Contrail SD-WAN Deployment Standalone NGFW • NGFW Deployment Model • NGFW Deployment Workflows • Zone-Based Policies Lab 3: Standalone NGFW Deployment Day 3 Brownfield NGFW • Brownfield NGFW Deployment Workflow • Adding a Brownfield NGFW Administration and Monitoring

• Role-Based Access Control • Monitoring • Reporting

The following Appendix can be covered, if time permits, and is requested by the delegate/s prior to booking:  
Appendix A What's New in Conrail Service Orchestration

## **Session Dates**

On request. Please [contact us](#)

## **Additional Information**

[This training is also available as onsite training. Please contact us to find out more.](#)