

## ENSDW

# Cisco SD-WAN Operation and Deployment (ENSDW) v1.0

16 horas

Automation, Programmability & DNA

Cisco

## INTRODUÇÃO

The Cisco SD-WAN Operation and Deployment (ENSDW) v1.0 course provides an overview of the Cisco® Software-Defined WAN (SD-WAN) solution and SD-WAN components. You will learn how to create, manage, and operate a secure extensible network using Cisco SD-WAN products. The course covers how to configure, operate, and monitor overlay routing in a secure extensible network. In addition, you will learn about policies and Quality of Service (QoS) in the SD-WAN overlay network.

The Cisco SD-WAN solution is a cloud-delivered overlay WAN architecture that facilitates digital and cloud transformation for enterprises. Cisco SD-WAN significantly reduces WAN costs and time to deploy new services. With Cisco SD-WAN, you can build a robust security architecture that's crucial for hybrid networks and provides a strong policy framework.

## OBJETIVO DO CURSO

- Establish transport-independent WAN for lower cost and higher diversity
- Meet SLAs for business-critical and real-time applications
- Provide end-to-end segmentation for protecting critical enterprise compute resources
- Extend seamlessly into the public cloud
- Optimize the user experience for Software-as-a-Service (SaaS) applications

## PÚBLICO-ALVO

- Enterprise network system installers
- System integrators
- System administrators
- Network administrators
- Solutions designers

## PRÉ-REQUISITOS

- Strong understanding of enterprise WAN design
- Strong understanding of routing protocol operation, interior and exterior
- Familiarity with Transport Layer Security (TLS) and IP Security (IPsec)

## **SD-WAN Solution Components**

SD-WAN Solution Overview

SD-WAN Components

Managing SD-WAN Components

## **Secure Extensible Network Deployment**

Secure Control Plane Operation

Secure Control Plane Deployment

Secure Data Plane Operation

Cloud Deployments and Redundancy

## **SD-WAN Template Deployment**

Templates Overview

Feature Templates

Device Templates

Attaching Devices to Templates

## **SD-WAN Overlay Routing**

sOverlay Routing Overview

OMP Route Advertisements

OMP Route Redistribution and Network Segmentation

Configuring and Verifying Overlay Routing

## **SD-WAN Policies and QoS**

Policy Overview and Framework

vSmart Policy Operation and Construction

Forwarding and QoS Overview

Configuring and Monitoring QoS Forwarding

## **Lab Outline**

Manage and Monitor SD-WAN Components

Deploy and Verify SD-WAN vEdge Routers

Deploy SD-WAN Templates

SD-WAN Overlay Routing

Smart Policies