

**ENCC**

## Designing and Implementing Secure Cloud Connectivity

32 horas

Professional

Cisco

Cisco Continuing Education Credits

**32 CE Credits**

### INTRODUÇÃO

The Designing and Implementing Secure Cloud Connectivity (ENCC) training helps you develop the skills required to design and implement enterprise cloud connectivity solutions leveraging AWS, Microsoft Azure, and GCP.

## OBJETIVO DO CURSO

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Describe fundamental components of cloud computing, deployment models, and cloud providers

Describe options for establishing connectivity to public cloud services including IPsec VPN and SD-WAN Cloud OnRamp

Describe private connectivity options to public cloud infrastructure

Describe connectivity options to SaaS applications

Describe high availability, resiliency, and scalability for cloud connectivity

Describe public cloud security and its components

Describe regulatory compliance requirements

Implement IPsec-driven internet-based public cloud connectivity

Introduce overlay routing

Introduce Cisco Catalyst SD-WAN capabilities for cloud connectivity

Describe Cisco SD-WAN native and cloud security capabilities

Introduce Cloud OnRamp for SaaS and AppQoE

Introduce Catalyst Cisco SD-WAN Policies

Diagnose and troubleshoot common cloud connectivity issues

## PÚBLICO-ALVO

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Cloud Architects, Cloud Administrators, Cloud Engineers, Cloud Network Engineers, Systems Engineers, Technical Solutions Architects

## PRÉ-REQUISITOS

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No formal prerequisites. Recommended: enterprise routing, WAN networking, VPN technology, Cisco Catalyst SD-WAN, and public cloud services knowledge.

## Course Outline

Public Cloud Fundamentals  
Internet-Based Connectivity to Public Cloud  
Private Connectivity to Public Cloud  
SaaS Connectivity  
Resilient and Scalable Public Cloud Connectivity  
Cloud-Native Security Policies  
Regulatory Compliance Requirements  
Internet-Based Public Cloud Connectivity  
Overlay Routing Deployment  
Cisco SD-WAN Internet-Based Cloud Connectivity  
Cisco SD-WAN Cloud Security  
Cloud OnRamp for SaaS  
Cisco SD-WAN Policies  
Application Quality of Experience  
Internet-Based Public Cloud Connectivity Diagnostics  
Overlay Routing Diagnostics  
Cisco SD-WAN Public Cloud Connectivity Diagnostics

## Lab Outline

Initial Lab Network Exploration  
Implement IPsec Connectivity to Public Cloud Gateways  
Implement IPsec Connectivity to Cloud-Hosted Cisco IOS-XE Routers  
Implement Overlay Routing  
Deploy Cloud OnRamp for Multicloud  
Deploy Umbrella Cloud Security  
Implement Cloud OnRamp for SaaS with AppQoE  
Troubleshoot Underlay Connectivity  
Troubleshoot Overlay Routing  
Diagnose Cloud OnRamp for Multicloud