

## **Implementing and Configuring Cisco Identity Services Engine 2.1(CS-SISE 2.1)**

**Modality: Virtual Classroom**

**Duration: 5 Days**

**SATV Value:**

**CLC: 40 Units**

**NATU:**

**SUBSCRIPTION: No**

### **About this Course**

Executing and Configuring Cisco Identity Services Engine (SISE) v2x is a 5-day Cisco ISE preparation program that educates students on the Cisco Identity Services Engine, an unique and access control policy board that offers a single policy plane crossways the whole organization, uniting multiple services, comprising validation, authorization, and accounting (AAA), posture, outlining, device on-boarding, and guest administration, into a solo context-aware identity-based platform. This CCNA course offers students with the information and skills to carry out safety posture compliance for wired and wireless endpoints as well as develop infrastructure security by means of the Cisco ISE. When it comes to CCNA security, this is a perfect course for anybody who plans to work with the Cisco Identity Services Engine. Sign up for this or one of our additional Cisco ISE training courses today.

A professional Cisco Systems Engineer earns an average salary of **\$120,003** per year.

### **Course Objectives**

Upon successful achievement of this course, students should be capable to meet these inclusive objectives:

- Define Cisco ISE construction, setting up, and distributed deployment possibilities
- Align Network Access Devices (NADs), policy mechanisms, and basic validation and authorization policies in Cisco ISE
- Incorporate Cisco ISE web validation and guest services
- Organize Cisco ISE profiling, posture, and customer provisioning services
- Define administration, checking, troubleshooting, and TrustSec SGA security
- Organize device administration by means of TACACS+ in Cisco ISE

## Audience

The principal audience for this course is as follows:

- ISE Managers / Engineers
- Wireless Administrators / Engineers
- Consulting Systems Engineers
- Technical / Wireless / BYOD / Safety Solutions Architects
- ATP partner systems and field engineers
- Systems integrators who set up and incorporate the Cisco Identity Service Engine v2 x

## Prerequisites

It is mentioned that students have the following understanding and skills prior to appearing this course:

- Knowledge of Cisco IOS CLI
- Understanding with Cisco ASA
- Expertise with Cisco VPN clients
- Understanding with Microsoft Windows Operating Systems
- Familiarity with 802.1x

## Recommended Prerequisite Course

- CCNAX Boot camp Interconnecting Cisco Networking Devices Accelerated (ICND1+ICND2) (CCNAX)

## Course Outline:

### Module 1: Introducing Cisco ISE Architecture and Deployment

- Lesson 1: Using Cisco ISE as a Network Access Policy Engine
- Lesson 2: Introducing Cisco ISE Deployment Models

### Module 2: Cisco ISE Policy Enforcement

- Lesson 1: Introducing 802.1x and MAB Access: Wired and Wireless
- Lesson 2: Introducing Identity Management
- Lesson 3: Configuring Certificate Services
- Lesson 4: Introducing Cisco ISE Policy
- Lesson 5: Configuring Cisco ISE Policy Sets
- Lesson 6: Implementing Third-Party Network Access Device Support
- Lesson 7: Introducing Cisco TrustSec
- Lesson 8: Introducing EasyConnect

### **Module 3: Web Authentication and Guest Services**

- Lesson 1: Introducing Web Access with Cisco ISE
- Lesson 2: Introducing ISE Guest Access Components
- Lesson 3: Configuring Guest Access Settings
- Lesson 4: Configuring Portals: Sponsors and Guests

### **Module 4: Cisco ISE Profiler**

- Lesson 1: Introducing Cisco ISE Profiler
- Lesson 2: Configuring Cisco ISE Profiling

### **Module 5: Cisco ISE BYOD**

- Lesson 1: Introducing the Cisco ISE BYOD Process
- Lesson 2: Describing BYOD Flow
- Lesson 3: Configuring My Devices Portal Settings
- Lesson 4: Configuring Certificates in BYOD Scenarios

### **Module 6: Cisco ISE Endpoint Compliance Services**

- Lesson 1: Introducing Endpoint Compliance
- Lesson 2: Configuring Client Posture Services and Provisioning in Cisco ISE

### **Module 7: Cisco ISE with AMP and VPN-Based Services**

- Lesson 1: Introducing VPN Access Using Cisco ISE
- Lesson 2: Configuring Cisco AMP for ISE

### **Module 8: Cisco ISE Integrated Solutions with APIs**

- Lesson 1: Introducing Location-Based Authorization
- Lesson 2: Introducing Cisco ISE 2.x pxGrid

### **Module 9: Working with Network Access Devices**

- Lesson 1: Configuring TACACS+ for Cisco ISE Device Administration

### **Module 10: Cisco ISE Design**

- Lesson 1: Designing and Deployment Best Practices
- Lesson 2: Performing Cisco ISE Installation and Configuration Best Practices
- Lesson 3: Deploying Failover and High-Availability

## **Module 11: Configuring Third Party NAD Support**

- Lesson 1: Configuring Third-Party NAD Support

### **Lab Outline**

- Lab 1: Configure Initial Cisco ISE setup, GUI familiarization, system certificate usage
- Lab 2: Integrate Cisco ISE with Active Directory
- Lab 3: Configure Basic Policy on Cisco ISE
- Lab 4: Configure Conversion to Policy Sets
- Lab 5: Configure Access Policy for Easy Connect
- Lab 6: Configure Guest Access
- Lab 7: Configure Guest Access Operations
- Lab 8: Create Guest Reports
- Lab 9: Configure Profiling
- Lab 10: Customize the Cisco ISE Profiling Configuration
- Lab 11: Create Cisco ISE Profiling Reports
- Lab 12: Configure BYOD
- Lab 13: Blacklisting a Device
- Lab 14: Configure Compliance Services on Cisco ISE
- Lab 15: Configure Client Provisioning
- Lab 16: Configure Posture Policies
- Lab 17: Test and Monitor Compliance Based Access
- Lab 18: Test Compliance Policy
- Lab 19: Configure Cisco ISE for VPN Access
- Lab 20: Configure Threat-Centric NAC using Cisco AMP (Optional)
- Lab 21: Configure Cisco ISE pxGrid and Cisco WSA Integration
- Lab 22: Configure Cisco ISE for Basic Device Administration
- Lab 23: Configure TACACS+ Command Authorization