

# Implementing Cisco Secure Access Solutions

Learn via: Classroom/AFA

Duration: 5 Day

## Overview

**Implementing Cisco Secure Access Solutions (SISAS) v1.0 is a newly created five-day instructor-led training course is part of the curriculum path leading to the Cisco Certified Network Professional Security (CCNP® Security) certification.**

Additionally, this course is designed to prepare security engineers with the knowledge and hands-on experience so that they can deploy Cisco's Identity Services Engine and 802.1X secure network access. The goal of the course is to provide you with foundational knowledge and the capabilities to implement and managed network access security by utilizing Cisco ISE appliance product solution. You will gain hands-on experience with configuring various advance Cisco security solutions for mitigating outside threats and securing devices connecting to the network. At the end of the course, you will be able to reduce the risk to their IT infrastructures and applications using Cisco's ISE appliance feature and provide operational support identity and network access control.

## Prerequisites

- Cisco Certified Network Associate (CCNA®) certification
- Cisco Certified Network Associate (CCNA®) Security certification
- Knowledge of Microsoft Windows operating system

## Who Should Attend

- Network Security Engineers
- Prerequisites

## What You Will Learn

At the end of this course you will be able to:

- Understand Cisco Identity Services Engine architecture and access control capabilities
- Understand 802.1X architecture, implementation and operation
- Understand commonly implemented Extensible Authentication Protocols (EAP)
- Implement Public-Key Infrastructure with ISE
- Understand the implement Internal and External authentication databases
- Implement MAC Authentication Bypass
- Implement identity based authorization policies
- Understand Cisco TrustSec features
- Implement Web Authentication and Guest Access
- Implement ISE Posture service
- Implement ISE Profiling
- Understand Bring Your Own Device (BYOD) with ISE
- Troubleshoot ISE

## Outline

### **Module 1: Threat Mitigation through Identity Services**

Identity Services  
802.1X and EAP

Configure 802.1X Components  
Lab 1-1: Bootstrap Identity System

## **Module 2: ISE Fundamentals**

Describe Cisco ISE Features and configure the fundamentals  
Cisco ISE with PKI  
Lab 2-1: Enroll Cisco ISE with PKI  
Cisco ISE Authentication  
Lab 2-2: Implement MAB and Internal Authentication with ISE  
Cisco ISE with External Authentication  
Lab 2-3: Implementing External Authentication

## **Module 3: Advance Access Control**

Certificate Based User Authentication  
Lab 3-1: Implement EAP-TLS  
Authorization  
Lab 3-2: Implement Authorization  
Cisco TrustSec

## **Module 4: Web Authentication and Guest Access**

Web Authentication  
Lab 4-1: Implement Web Authentication  
Guest Access Services  
Lab 4-2: Implement Guest Access

## **Module 5: Endpoint**

Posture  
Lab: 5-1: Implement Posture  
Profiler  
Lab 5-2: Implement Profiling  
BYOD

## **Module 6: Troubleshooting Network Access Control**

Troubleshooting ISE  
Lab 6-1: Troubleshooting ISE