Overview
The Planning and Deploying SD-Access Fundamentals (for Customers) (CUST-SDA-FUND) version 1.0 Cisco® Training on Demand course focuses on deploying the Cisco Software-Defined Access (SD-Access) solution from the ground up. It starts with how to integrate Cisco Identity Services Engine (ISE) and Cisco DNA Center™ and ends with end-to-end troubleshooting and using Cisco DNA™ Assurance to monitor and troubleshoot endpoint and fabric issues. The “expert in a box” approach uses Cisco solution experts to walk you step by step through building the SD-Access solution for wired and wireless campus networks, as well as adding advanced functionality such as micro-segmentation and multicast. High points include presentations and discussions from the engineers who developed and deploy SD-Access as well as incremental lab demonstrations of each configuration element they discuss.

The course is organized so that the lecture and lab demonstration for each feature stand alone. Since the features do not depend on each other, you can view them as needed or in your preferred order. It starts with the solution overview, then goes into building the underlay and basic campus fabric and host onboarding. Once you build the basic campus, you add micro-segmentation, wireless support for employees and guests, and multicast support. After the solution is built, the presenters walk you through how to perform end-to-end testing and use Cisco DNA Assurance to determine the health of the fabric and view selected endpoint workstation access to the fabric.

Duration
This CUST-SDA-FUND v1.0 Training on Demand course consists of 12 modules with approximately 14 hours of video instruction.
Target audience
The course is designed for customer staff who are responsible for planning, designing, or implementing the Cisco SD-Access solution.

Job roles that will benefit most from this training are network architects, field, implementation, and operations engineers.

Objectives
Upon completion of this course, you should be able to:

- List the components that make up the SD-Access solution and describe how SD-Access operates
- Configure and verify the secure integration between ISE and DNA Center
- Configure and verify the network underlay and use DNA Center to discover the nodes and add them to the inventory
- Build a basic campus fabric using DNA Center and onboard hosts using DNA Center and ISE
- Connect the fabric to external networks that include shared services and the Internet
- Use a layered methodology to test and troubleshoot the SD-Access solution
- Use micro-segmentation to segment groups within a virtual network or restrict specific traffic types between groups
- Enable wireless for non guest and guest users over the SD-Access fabric
- Enable multicast operation over the SD-Access fabric
- Use Cisco DNA Assurance to determine the health of the fabric and isolate endpoint device activity

Course prerequisites
The knowledge and skills necessary before attending this course are:

- Network deployment experience equivalent to the Cisco CCNP® Routing and Switching certification
- Basic understanding of 802.1X and Cisco TrustSec® operation
- Practical experience in locating and viewing groups and policies in ISE
- Working knowledge of Cisco wireless operation and configuration of Cisco wireless LAN controllers and access points
- Working knowledge of multicast operation, including Protocol Independent Multicast (PIM) Any-Source Multicast (ASM) and Source-Specific Multicast (SSM)
Course outline

- Module 1: Overview: Course, Solution, and Case Study Lab
- Module 2: Installing and Integrating DNA Center and ISE
- Module 3: Fabric 101: Operational Details and Terminology
- Module 4: Building the Network Underlay
- Module 5: Deploying an SD-Access Enabled Campus (Basic)
- Module 6: Connecting to Shared Services and External Networks
- Module 7: Scaling the Fabric Using Automated Underlay
- Module 8: Implementing Micro-Segmentation
- Module 9: Enabling Integrated Wireless Support and Guest Access
- Module 10: Enabling Multicast Support
- Module 11: End-to-End Testing and Troubleshooting
- Module 12: Using the Assurance Workflow to View the Network and Fabric

Labs outline

There are no labs in this course.

Cisco Capital

Financing to Help You Achieve Your Objectives

Cisco Capital can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx. Accelerate your growth. Optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there’s just one predictable payment. Cisco Capital is available in more than 100 countries. Learn more.