



Platinum Learning Partner
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Digital Network Architecture Implementation Essentials

DNAIE

Course Overview

Digital Network Architecture Implementation Essentials (DNAIE) v2.0 is a 5-day instructor-led training program that provides students with an insight into Cisco Digital Network Architecture (DNA) architecture and its solution components. The course highlights the need for digitization in networks and the guiding principles of DNA.

The course focuses on implementation of the following DNA solution components:

- Automation using Cisco APIC-EM and its built-in applications like Plug and Play, EasyQoS, IWAN and Path Trace
- Virtualization in Enterprise Branch Network using Cisco Enterprise Network Function Virtualization (NFV) Solution
- Analytics using Cisco Connected Mobile Experiences (CMX) cloud
- Security using Cisco StealthWatch, Cisco TrustSec and Cisco Identity Services Engine (ISE)
- Enterprise Network Fabric

The DNAIE course also provides hands-on-labs to demonstrate DNA automation using Cisco APIC-EM and virtualization using Cisco NFV.

Objectives

Upon completing this course, the learner will be able to meet these overall objectives:

- Identify the Digital Network Architecture solution by describing the vision, strategy, general concepts and components of it.
- Implement network automation using Cisco APIC-EM and the built-in applications like Network Plug and Play, EasyQoS, IWAN and Path Trace.
- Implement network virtualization using Cisco Network Function Virtualization in Enterprise branch network.
- Implement network analytics using Cisco Connected Mobile Experience (CMX) cloud.
- Implement network security using Cisco StealthWatch, Cisco TrustSec and Cisco Identity Services Engine (ISE).



Real skills for real engineers

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Prerequisite Knowledge

To fully benefit from this course, you should have the following knowledge and skills:

- Foundational understanding of network design
- Foundational understanding of network routing, QoS and security operations
- Understanding of CDP, LLDP, DHCP, DNS, NTP AND SNMP
- Understanding of TCP protocols like HTTP, HTTPS and telnet
- Understanding of routing concepts and also be able to configure routing protocols - EIGRP and OSPF
- Understanding of enterprise WAN and DMVPN
- Understanding of firewall operations
- Basic understanding of Cisco Prime Infrastructure
- Basic understanding of KVM virtualization (i.e. Linux virtualization)
- Basic understanding of programming concepts
- Basic understanding of SDN, northbound APIs, southbound API and REST API
- Understanding of WLAN parameters
- Basic understanding of WLC and AP capabilities in WLC
- Understanding of power of ethernet (PoE) in Cisco switches

