TOC: Cisco ENCS

Module 1: Introduction to ENCS Architecture

• Role and need of the Cisco ENCS Appliance

• Cisco ENCS Architecture Deep Dive

• Cisco ENCS 5100

• Cisco ENCS 5400

• Network Function Virtualization Infrastructure

• Inside the Cisco ENCS 5400 Hardware

• Managing the Cisco 5400 Appliance – Leveraging the Cisco IMC

• Introduction to Virtual Network Functions

Module 2: Cisco ENCS 5400 Networking

• Cisco ENCS 5400 Internal Networking

• Understanding the X86 Architecture

• Inbuilt Hardware witch ports with PoE

• Working of the ENCS Internal Virtual Switch

• Understanding the SR-IOV on the ENCS 5400

• Cisco ENCS Networks and Bridges

• LAN Bridge Configuration

• WAN Bridge Configuration

• Creating Internal Networks

• Cisco ENCS Default Network Configuration

• Connecting the ENCS to the LAN and WAN Networks

• Understanding ENCS OOB Management

Module 3: Deploying VNFs on the Cisco ENCS

• Understanding the VNF Lifecycle on the ENCS

• Virtual Network Function Requirements

• Creating NFVIS VM Packages

- Bootstrap Packaging Options

- Generating the Package file from the CLI and the GUI

- Perform VM image registration and deployment

- Create custom flavors—a flavor is the customized profile of the VM image

- Deploying Cisco and 3rd Party VNFs

- Connecting the VNF to the Internal Networks

- Accessing the VNF from the External network

Module 4: Deploying the Cisco ENCS using an Orchestrator

- Deep Dive into the Cisco ISRv – Preinstalled on the Cisco ENCS

- Overview of the Cisco DNA-Centre and Cisco NSO

- Overview of the Cisco SD-WAN solution

- Deploying the Cisco ENCS using the Plug and Play – Zero Touch Provisioning

Module 5: Deploying the Cisco SD-Branch Solution on the ENCS 5400

- Deploying and managing the ENCS from the Cisco DNA-Centre

- Deploying and managing the ENCS from the Cisco NSO

- Deploying the Cisco SD-WAN Cloud Router on the Cisco ENCS using the Cisco NSO

- Configuring the networking for the SD-WAN Cloud Router using the Cisco NSO

- Defining a New Catalog

- Register the NFVIS System into NSO

- Register the remote VNF

- Instantiate a VNF on the Remote Site