FSM

ACHIEVING THE IMPOSSIBLE

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Implementing Cisco Enterprise Network Core Technologies v1.0 (350-401)

Exam Description: Implementing Cisco Enterprise Network Core Technologies v1.0 (ENCOR 350-401) is a 120-minute exam associated with the CCNP and CCIE Enterprise Certifications. This exam tests a candidate's knowledge of implementing core enterprise network technologies including dual stack (IPv4 and IPv6) architecture, virtualization, infrastructure, network assurance, security and automation. The course, Implementing Cisco Enterprise Network Core Technologies, helps candidates to prepare for this exam.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

1.0	Architecture	
1.1	Explain the different design principles used in an enterprise network	
	1.1.a	Enterprise network design such as Tier 2, Tier 3, and Fabric Capacity planning
	1.1.b	High availability techniques such as redundancy, FHRP, and SSO
1.2	Analyze design principles of a WLAN deployment	
	1.2.a	Wireless deployment models (centralized, distributed, controller-less, controller based, cloud, remote branch)
	1.2.b	Location services in a WLAN design
1.3	Differentiate between on-premises and cloud infrastructure deployments	
1.4	Explain the working principles of the Cisco SD-WAN solution	
	1.4.a	SD-WAN control and data planes elements
	1.4.b	Traditional WAN and SD-WAN solutions
1.5	Explain the working principles of the Cisco SD-Access solution	
	1.5.a	SD-Access control and data planes elements
	1.5.b	Traditional campus interoperating with SD-Access
1.6	Describe concepts of wired and wireless QoS	
	1.6.a	QoS components
	1.6.b	QoS policy
1.7	Differentiate hardware and software switching mechanisms	
	1.7.a	Process and CEF
	1.7.b	MAC address table and TCAM
	1.7.c	FIB vs. RIB

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2.0 Virtualization
  2.1 Describe device virtualization technologies
    2.1.a Hypervisor type 1 and 2
    2.1.b Virtual machine
    2.1.c Virtual switching

  2.2 Configure and verify data path virtualization technologies
    2.2.a VRF
    2.2.b GRE and IPsec tunneling

  2.3 Describe network virtualization concepts
    2.3.a LISP
    2.3.b VXLAN

3.0 Infrastructure
  3.1 Layer 2
    3.1.a Troubleshoot static and dynamic 802.1q trunking protocols
    3.1.b Troubleshoot static and dynamic EtherChannels
    3.1.c Configure and verify common Spanning Tree Protocols (RSTP and MST)

  3.2 Layer 3
    3.2.a Compare routing concepts of EIGRP and OSPF (advanced distance vector vs. linked state, load balancing, path selection, path operations, metrics)
    3.2.b Configure and verify simple OSPF environments, including multiple normal areas, summarization, and filtering (neighbor adjacency, point-to-point and broadcast network types, and passive interface)
    3.2.c Configure and verify eBGP between directly connected neighbors (best path selection algorithm and neighbor relationships)

  3.3 Wireless
    3.3.a Describe Layer 1 concepts, such as RF power, RSSI, SNR, interference noise, band and channels, and wireless client devices capabilities
    3.3.b Describe AP modes and antenna types
    3.3.c Describe access point discovery and join process (discovery algorithms, WLC selection process)
    3.3.d Describe the main principles and use cases for Layer 2 and Layer 3 roaming
    3.3.e Troubleshoot WLAN configuration and wireless client connectivity issues

  3.4 IP Services
    3.4.a Describe Network Time Protocol (NTP)
    3.4.b Configure and verify NAT/PAT
    3.4.c Configure first hop redundancy protocols, such as HSRP and VRRP
    3.4.d Describe multicast protocols, such as PIM and IGMP v2/v3

4.0 Network Assurance
  4.1 Diagnose network problems using tools such as debugs, conditional debugs, trace

route, ping, SNMP, and syslog

4.2	Configure and verify device monitoring using syslog for remote logging
4.3	Configure and verify NetFlow and Flexible NetFlow
4.4	Configure and verify SPAN/RSPAN/ERSPAN
4.5	Configure and verify IPSLA
4.6	Describe Cisco DNA Center workflows to apply network configuration, monitoring, and management
4.7	Configure and verify NETCONF and RESTCONF

5.0   Security

5.1   Configure and verify device access control
          5.1.a   Lines and password protection
          5.1.b   Authentication and authorization using AAA

5.2   Configure and verify infrastructure security features
          5.2.a   ACLs
          5.2.b   CoPP

5.3   Describe REST API security

5.4   Configure and verify wireless security features
          5.4.a   EAP
          5.4.b   WebAuth
          5.4.c   PSK

5.5   Describe the components of network security design
          5.5.a   Threat defense
          5.5.b   Endpoint security
          5.5.c   Next-generation firewall
          5.5.d   TrustSec, MACsec
          5.5.e   Network access control with 802.1X, MAB, and WebAuth

6.0   Automation

6.1   Interpret basic Python components and scripts
6.2   Construct valid JSON encoded file
6.3   Describe the high-level principles and benefits of a data modeling language, such as YANG
6.4   Describe APIs for Cisco DNA Center and vManage
6.5   Interpret REST API response codes and results in payload using Cisco DNA Center and RESTCONF
6.6   Construct EEM applet to automate configuration, troubleshooting, or data collection
6.7   Compare agent vs. agentless orchestration tools, such as Chef, Puppet, Ansible, and SaltStack

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ABOUT US

Who We Are:

We the FSM have remained a premier provider of business transformational solutions, assisting our valuable clients to completely revolutionize their customer management activities. Backed by extensive experience with similar architectures, we are skilled at anticipating potential risks and developing risk mitigation plans. Successful planning and implementation of an enterprise-level contact center and UC project deliveries has our track record. What sets us apart from the competition and makes us an ideal partner for your support requirements? – It is the pursuit of excellence in providing:

•   Enhanced Technical Capabilities

•   Experience and Proven Success

•   Reduced Costs

Why Consulting Us?

As a leading institution for IT network training in the country, headquartered in Bangalore, we started our program in the year 2014. The center has been providing training across multiple CISCO systems including Security, Collaboration, Routing & Switching, Data Center, Wireless, Service Provider, UCCX, UCCE, CVP ETC, and Microsoft Skype for Business 2015. The labs, equipped with the latest technology hardware equipment, are open around the clock for the students.

We provide the most sought after programs in IT – the prestigious Cisco powered Unified Communication (Cisco Spark & Microsoft Skype for Business), and CCIE training and

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Certification. The training provides holistic knowledge and practical experience resulting in creating the best engineers in networking industry.

Our pool of certified trainers with a total of 25+ years of industry experience has been proved efficient and successful time and again by the numbers of students placed. We maintain uncompromised commitment of ensuring that every student is job-ready at the end of the course.