



642-889

Implementing Cisco Service Provider Next-
Generation Edge Network Services

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SUCCESS GUIDE TO CISCO CERTIFICATION

Exam Summary – Syllabus – Questions

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Introduction to 642-889 Exam on Implementing Cisco Service Provider Next-Generation Edge Network Services

A great way to start the Cisco Certified Network Professional Service Provider (SPEDGE) preparation is to begin by properly appreciating the role that syllabus and study guide play in the Cisco 642-889 certification exam. This study guide is an instrument to get you on the same page with Cisco and understand the nature of the Cisco CCNP Service Provider exam.

Our team of experts has composed this Cisco 642-889 exam preparation guide to provide the overview about Cisco Implementing Cisco Service Provider Next-Generation Edge Network Services exam, study material, sample questions, practice exam and ways to interpret the exam objectives to help you assess your readiness for the Cisco SPEDGE exam by identifying prerequisite areas of knowledge. We recommend you to refer the simulation questions and practice test listed in this guide to determine what type of questions will be asked and the level of difficulty that could be tested in the Cisco CCNP Service Provider certification exam.

Cisco 642-889 Certification Details:

Exam Name	Implementing Cisco Service Provider Next-Generation Edge Network Services
Exam Number	642-889 SPEDGE
Exam Price	\$300 USD
Duration	90 minutes
Number of Questions	65-75
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	Implementing Cisco Service Provider Next-Generation Edge Network Services (SPEDGE)
Exam Registration	PEARSON VUE
Sample Questions	Cisco 642-889 Sample Questions
Practice Exam	Cisco Certified Network Professional Service Provider Practice Test

Cisco 642-889 Exam Syllabus:

Section	Weight	Objectives
VPN in Service Provider IP NGN Environments	15%	1 Describe VPN implementation models (overlay, peer-to-peer) 2 Describe VPN technologies (L2TPv3, GRE, IPsec VPN, SSLVPN, DMVPN, GETVPN) 3 Describe L2 vs L3 VPNs
MPLS layer 3 VPNs in Service Provider IP NGN Environments	40%	1 Describe MPLS L3 VPN architecture and operations (RDs, RTs, VRFs, MP-BGP, PE-CE routing) 2 Describe the design models for combining Internet access with MPLS L3 VPN services 3 Describe the various methods used to deploy IPv6 over MPLS (6PE and 6VPE) 4 Implement MP-BGP between PE routers on IOS-XR and IOS-XE 5 Implement PE-CE routings (static, EIGRP, OSPF, BGP) on IOS-XR and IOS-XE 6 Implement complex MPLS layer 3 VPNs on IOS-XR and IOS-XE 7 Implement carrier supporting carrier (CSC) on IOS-XR and IOS-XE 8 Troubleshoot MPLS L3 VPNs IOS-XR and IOS-XE configuration errors in service provider environments
Layer 2 VPNs in Service Provider IP NGN Environments	19%	1 Describe L2TPv3 VPNs over an IP core network 2 Describe L2 VPNs (AToM and VPLS) over an IP/MPLS core network 3 Describe AToM Interworking 4 Implement AToM on IOS-XR and IOS-XE
Carrier Ethernet in Service Provider IP NGN Environments	26%	1 Describe Carrier Ethernet forums and standards (MEF, IEEE, IETF) 2 Describe the concepts of User PE (U-PE) and Network PE (N-PE) 3 Describe E-Line versus E-LAN versus E-Tree

Section	Weight	Objectives
		4 Describe QinQ tunneling 5 Describe Provider Backbone Bridge (PBB - aka MAC-in-MAC) 6 Describe VPWS versus VPLS 7 Describe VPLS versus H-VPLS 8 Describe VPLS signaling using LDP or BGP 9 Implement QinQ on Cisco ME 3400 Series Switches 10 Implement VPLS on IOS-XR and IOS-XE

642-889 Sample Questions:

01. What are the advantages of VPNs?

(Choose three)

- a) Cost savings
- b) Scalability
- c) Improved security
- d) Complexity

02. Which protocol would a PE router use to support an existing Internet routing scheme?

- a) IS-IS
- b) EIGRP
- c) BGP IPv4
- d) BGP VPNv4

03. Peer-to-Peer VPN technology is?

- a) DMVPN
- b) GET VPN
- c) IPsec
- d) L2TPv3

04. Which protocol is used to transport customer routes directly between PE routers?

- a) RIP
- b) VPN
- c) BGP
- d) OSPF

05. In which two ways do MPLS VPNs support overlapping customer address spaces?

(Choose two)

- a) By implementing unique RDs for each customer
- b) By implementing unique RTs for each customer
- c) By implementing different LSPs for each customer
- d) By implementing virtual routing spaces for each customer

06. Why do MPLS VPNs implement route targets?

- a) To identify different customer VPNs
- b) To allow a site to participate on more than one VPN
- c) To convert a customer address to an MP-BGP address
- d) To convert a nonunique IP address into a unique VPNv4 address

07. Layer 2 overlay VPN technologies are?

(Choose two)

- a) Frame relay
- b) GRE
- c) SSL VPN
- d) ATM

08. What is the effect of an MPLS VPN on CE routers?

- a) The CE routers must support BGP.
- b) The CE routers must run a link-state protocol.
- c) The CE routers can run any standard IP routing protocol.
- d) The IGP of the CE routers must be upgraded to a VPN-aware IGP.

09. How can P routers forward VPN packets if they do not have VPN routes?

- a) They forward based upon the LSP label.
- b) They forward based upon the VPN label.
- c) They forward based upon the MP-BGP next hop.
- d) They forward based upon a routing table lookup of the IP address.

10. Layer 3 overlay VPN technologies are?

(Choose two)

- a) Frame relay
- b) DMVPN
- c) IPsec
- d) ATM

Answers to 642-889 Exam Questions:

Question: 01	Question: 02	Question: 03	Question: 04	Question: 05
Answer: a, b, c	Answer: c	Answer: b	Answer: c	Answer: a, d
Question: 06	Question: 07	Question: 08	Question: 09	Question: 10
Answer: b	Answer: a, d	Answer: d	Answer: a	Answer: b, c

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@nwexam.com