



COURSE OUTLINE: Meet Extreme Fabric





ASSOCIATED CERTIFICATIONS

Extreme Certified Associate



COURSE DURATION

1 Hour 50 Minutes



COURSE OVERVIEW

Join the Fabric Connect product family with this 4-part series covering topics such as IS-IS, Multicast, Security and much more. This series students will dive into the wonderful world of Extreme Fabric Connect, looking closely at specific Fabric scenarios and explaining these concepts so the whole of your family will understand.

WHO SHOULD ATTEND

This course is designed for individuals who are new to the field of fabric networking or those who have some experience and want to enhance their knowledge and skills.

COURSE OBJECTIVES

- Upon completion of this course, you will be able to complete the FREE certification exam which will award you the Extreme Certified Associate in Extreme Fabric digital badge.
- Display on your digital badge on your LinkedIn profile to demonstrate your credibility, your commitment to continuous learning and growth, enhanced visibility, and potential networking opportunities.

AGENDA

EP₁

- What is this thing called 'Extreme Fabric Connect' all about?
- Fabric Connect vs Traditional Network Methods Analogy
- Redundancy
- Spanning Tree Loops
- Spanning Tree Protocols
- IEEE to the Rescue with 802.1aq Shortest Path Bridging
- Characteristics of Traditional Networks
 - · Complex to Run and Maintain
 - · Suffer from Lack of Agility
 - · Security Challenges
 - · Lack of Flexibility
 - Expensive
- · Traditional Switching Gone Haywire Use Case
- · Takeaway Statement Number One

EP2

- Dijkstra the Foundation for SPB / 802.1aq
- Extreme Fabric Connect Abbreviations
 - · VSN Virtual Services Network
 - UNI User to Network Interface
 - NNI Network to Network Interface
 - · BCB Backbone Core Bridge
 - · BEB Backbone Edge Bridge
- Convergence Advantages of Fabric Connect
- Multicast Capabilities
- · Takeaway Statement Number Two

AGENDA (CONT.)

EP3

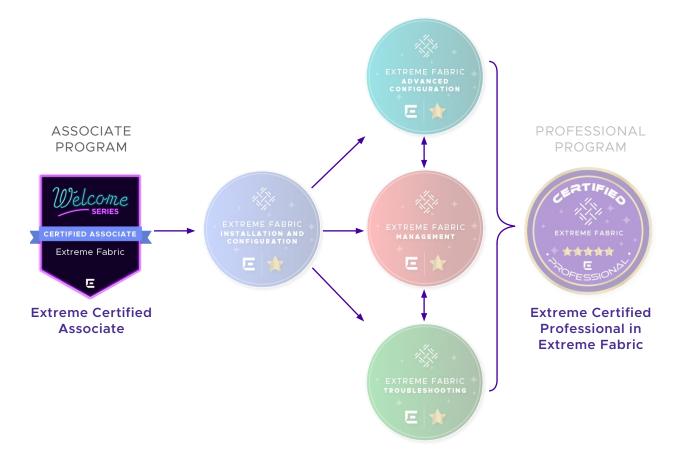
- IEEE Standards
- IS-IS a Link State Protocol
- · Symmetrical Data Paths
- IP-Free Config Inside the Fabric
- Forwarding Plane Mac in Mac
- · Control Plane IS-IS
- · Virtual Services within a FC network
- I-SID Unique identifiers for a Virtual Service Network
- · Edge Based Management
- From 802.1q to 802.1ah Encapsulation of a Data Frame on a FC Network
 - Service Identifiers (I-SID, B-SID)
 - Tunnel Identifiers (B-SA, B-DA)

- Backbone VLAN x 2 Transporting the Packets
- Mapping a Customer VLAN to an I-SID in One Command!
- Layer 2 VSN's Flat Network Extension
- IP Shortcuts
- · Takeaway Statement Number Three

EP4

- Multicast
- · Layer 3 VSNs
 - · Security by Stealth
 - Security Hyper Segmentation
 - · Security by Dynamic Elasticity
- · Security Video by Ed Koehler
- Fabric Extend
- Fabric Attach

WHERE DOES THIS COURSE FIT IN YOUR PROFESSIONAL PROGRAM LEARNING PATH?





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