
Nortel Converged Campus: ERS Solution

Duration: 4 Days **Course Code: 6720C**

Overview:

The Nortel Converged Campus: ERS Solution course introduces the Nortel Converged Campus Architecture. Three standard designs are discussed in detail, encompassing different sizing and feature requirements. For each design, you will learn the Ethernet Routing Switch (ERS) product placement and the Nortel recommended best practices.

The course goes beyond an introduction to include detailed discussion of the underlying ERS technologies that provide performance, scalability, Quality of Service, and resilience. By attending the course, you will gain the necessary knowledge to design small, medium and large converged campus solutions following the Nortel best practices design recommendations. The following Ethernet Routing Switch platforms are included in the campus design: ERS 8600, ERS 8300, ERS 5500, ERS 4500, and ERS 2500.

This course builds the foundation for the Nortel Converged Campus: ERS Solutions Installation and Configuration class. The virtual classroom course design allows you take online training in real time, collaborating with a live instructor and other students, using your home or office computer.

Target Audience:

This course is designed for technical staff responsible for the design of Campus Solutions using Nortel Ethernet Routing Switch Products. It also prepares technical personnel for the installation, operation, and management of the Nortel Ethernet Routing Switches.

Objectives:

- Describe the Nortel Converged Campus Architecture including the goals, features and scalability.
 - Identify Nortel's Ethernet Routing Switch hardware platforms, connectivity options and scalability, software features and product placement.
 - Describe the physical layer considerations when designing a converged campus including Ethernet media types, Layer 1 protocols, and Power over Ethernet.
 - Explain the design recommendations and operation of VLANs and Spanning Tree within a Converged Campus.
 - Explain how the ERS builds the IP routing table for IP routing operations and identify the IP routing design recommendations.
 - Describe the two options for link aggregation on the ERS/ES products and identify the design recommendations.
 - Explain how Split MultiLink Trunking (SMLT) operates in the network, state the advantages of SMLT, and identify design considerations for SMLT.
 - Describe the Layer 3 redundancy choices on the ERS including VRRP and Routed Split Multilink Trunking (RSMLT) and identify the design recommendations.
 - Describe the Quality of Service implementation of the ERS products including the use of Differentiated Services (DIFFserv), 802.1p and the hardware queue structure and the design recommendations for a Converged Campus.
 - Identify IP multicast operation and protocols and the design guidelines for the Converged Campus
 - Identify the proper ERS product placement within the converged
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Prerequisites:

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Content:

- Converged Network Architecture Overview
 - Nortel Ethernet Routing Switch Portfolio
 - Layer 1 Physical Media Types and PoE
 - Designing VLANs and Layer 2 Considerations
 - Designing a Layer 3 Routed Network
 - Link Aggregation
 - Nortel Split MultiLink Trunking (SMLT)
 - Layer 3 Redundancy: VRRP and RSMLT
 - Quality of Service
 - Designing for IP Multicast
 - Converged Campus Solution Design Overview
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Further Information:

For More information, or to book your course, please call us on 0800/84.009

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