Nokia Scalable IP Networks

Course outline

The Nokia Scalable IP Networks course is the starting point for the Service Routing Certification program and is designed for students with limited knowledge of IP and Ethernet technologies. Upon successful completion of this course, students will be familiar with the basics of TCP/IP, routing, routing protocols, IP addressing, Ethernet and services.

Course number
3FL30632AAAAZZZZZA

Duration
4 days (classroom hours and in-depth lab training)

Exam
Nokia Scalable IP Networks (4A0-100)
• Course registration is available at networks.nokia.com/src/courses
• Exam information and registration are available at networks.nokia.com/src/exams

Credit toward certification
Nokia Network Routing Specialist I

Recommended pre-requisites
Experience with binary numbers operations
Credit for other IP certifications
If you have already received an IP certification from Cisco or Juniper, and your certification is still valid, you may be eligible to receive credit towards prerequisite written exams in the Nokia Service Routing Certification program. To find out which third-party certifications are eligible for credit, which SRC exam exemptions you may be qualified to receive, and instructions on how to request an exemption, please visit networks.nokia.com/src/exemptions. Please note that your third-party certification must be current/active to receive credit.

Course objectives
After completing the course, students should be able to:
• Describe the use of the Nokia Service Router product families in the internet
• Be able to execute basic commands with the command line interface of the Nokia 7750 Service Router
• Describe the purpose and operation of common Layer 2 technologies
• Describe the IP forwarding process
• Analyze an IP address with subnet mask and calculate subnet boundaries
• Develop an IP address plan using IP subnetworking and address summarization
• Explain the difference between static routes and dynamic routing protocols
• Configure static routes and dynamic routing in a single area OSPF network
• Explain the purpose and basic features of BGP
• Describe the purpose of MPLS and how it can be used to create tunnels across an IP network
• Describe the MPLS-based VPN services supported on the Nokia 7750 Service Router: VPWS, VPLS and VPRN

Course modules
• Module 0 - Introduction to Scalable IP Networks
• Module 1 - Internet Overview
• Module 2 - Service Router Components and CLI
• Module 3 - Data Link Overview
• Module 4 - Layer 3 and IP Services
• Module 5 - IP Routing Protocol Basics
• Module 6 - Services Overview

Learn more at networks.nokia.com/src