Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS Finland Oy, Lars Sonckin kaari 16, 02600 Espoo, Finland

Email: education.ecs.fi@arrow.com
Phone: 0870 251 1000

Juniper Networks Design Fundamentals (JNDF)

CODE:	LENGTH:	PRICE:
JUN_JNDF	24 Hours (3 days)	€2,850.00

Description

This three-day course is designed to cover best practices, theory, and design principles for overall network design and will serve as the prerequisite course for other design subject areas — data center, security, and WAN.

Objectives

After successfully completing this course, you should be able to:

•Provide an overview of network design needs and common business requirements.
•Describe key product groups related to campus, WAN, data center, and security architectures.
•Analyze and interpret common RFP requirements.
•Scope a network design by gathering data and working with key stakeholders.
•Describe ways of processing customer data and design requests.
•Identify boundaries and scope for the design proposal.
•List some considerations when creating a design proposal.
•Provide an overview of network security design principles and common vulnerabilities.
•List high-level design considerations and best practices for securing the network.
•List the components of the campus network design.
•Describe best practices and design considerations for the campus.
•Describe architectural design options for the campus.
•List the components of the WAN.
•Describe best practices and design considerations for the WAN.
•Describe design options for the WAN.
•List the components of the data center design.
•Describe best practices and design considerations for the data center.
•Describe architectural design options for the data center.
•Define business continuity and its importance in a network design.
•Describe high availability design considerations and best practices.
•Provide an overview of high availability offerings and solutions.
•Describe Class of Service design considerations.
•Provide an overview of environmental considerations in network design.
•List design considerations and best practices for managing the network.
•Provide an overview of Juniper Networks and third party options for network management.
•List design considerations and best practices for network automation.
•Provide an overview of automation tools.
•Explain the foundational topics that have been taught throughout the course.
•Create a network design proposal that satisfies customer requirements and business needs.
•Provide an overview of the steps involved in migrating a network.
•Describe best practices used in network migration.
•List the various campus network topographies.
•Describe sample design options for the campus.

Audience

This course is targeted for Juniper Networks system engineers, partner sales engineers (including Champions), and services partners who are interested in learning network design introductory concepts. However, the course is also applicable to a general audience of Juniper customers with a desire to learn more about network design.

Prerequisites

•Knowledge of routing and switching architectures and protocols.
•Knowledge of Juniper Networks products and solutions.
•Understanding of infrastructure security principles.
•Basic knowledge of hypervisors and load balancers.

Programme

Chapter 2: Network Design Fundamentals
•A Need for Design
•Knowledge is King
•A Proposed Design Methodology

Day 1Chapter 1: Course Introduction•A Reference Network
Chapter 3: Understanding Customer Requirements
•RFP Requirements
•Scoping the Design Project
•Analyzing the Data
•Lab: Understanding Customer Requirements
Chapter 4: Organizing the Data
•Processing the Data and Requests
•Understanding Boundaries and Scope
•Design Proposal Considerations
Chapter 5: Securing the Network
•Why Secure the Network?
•Security Design Considerations
Chapter 6: Creating the Design—Campus
•The Campus Network: An Overview
•Best Practices and Considerations
•Architectural Design Options
Day 2•Lab: Creating the Design—Campus
Chapter 7: Creating the Design—Wide Area Networks
•The WAN: An Overview
•Best Practices and Considerations
•WAN Design Examples
•Lab: Creating the Design—WAN
Chapter 8: Creating the Design—Data Center
•The Data Center: An Overview
•Best Practices and Considerations
•Data Center Design Examples
•Lab: Creating the Design—Data Center
Chapter 9: Business Continuity and Network Enhancements
•Business Continuity Planning
•High Availability Design Considerations and Best Practices
•Offerings and Solutions
•CoS and Traffic Engineering Considerations
•Environmental Design
Chapter 10: Network Management
•Designing for Network Management
Chapter 11: Automation
•Designing for Network Automation
•Lab: Enhancing the Design
Day 3
Chapter 12: Putting Network Design into Practice
•Network Design Recap
•Responding to the RFP
•Final Lab Introduction
•Lab: Putting Network Design into Practice
Appendix A: Network Migration Strategies
•Migration Overview
•Migration Approaches
•Migration Examples
Appendix B: Sample Campus Designs
•Campus Topology Examples
Appendix C: Sample Response to RFP
•Example of an Actual Juniper Networks RFP Response

Options

JNDF is an associate-level course.

Session Dates

Aikataulutamme kiinnostuksen mukaan.

Additional Information

This training is also available as onsite training. Please contact us to find out more.