DELLTechnologies

D-NWG-FN-23

Dell Networking Foundations 2023
Certification Description

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Certification Overview
This certification validates the ability to perform basic skill level tasks in installing, configuring, maintaining and troubleshooting Dell Technologies Networking products.

Certification Requirements
To successfully complete this certification, a candidate must:

1. Have a sufficient knowledgebase/skill set through hands-on product experience and/or by consuming the Recommended Training.

2. Pass the [Dell Networking Foundations 2023 Exam](#).

Note: These details reflect certification requirements as of May 26, 2023.

The Proven Professional Program periodically updates Certifications to reflect technical currency and relevance. Please check the Proven Professional website regularly for the latest information.

Dell Technologies Partners: Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services Competencies provide partners with the ability to deliver services under their own brand or co-deliver with Dell Technologies. Tiered partners are eligible to obtain Services Competencies upon completing the specific requirements outlined in the [Services Competencies Matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

Dell Technologies
1 Dell Way
Round Rock Texas 78682

Dell Networking Foundations 2023 Exam
Exam Description

Exam Overview
This exam focuses on basic Networking foundational skills and portfolio introduction.

Products
Products likely to be referred to on this exam include but are not limited to:

- Dell Networking Switches

Exam Topics
Topics likely to be covered on this exam include:

Networking Essentials (5%)
- Explain the purpose and function of network devices such as switches and routers
- Distinguish between interface and cabling options
- Describe the steps and settings used for the initial configuration of a switch

Ethernet Technologies (40%)
- Describe how Ethernet addressing and framing operates
- Describe the operation and behavior of LLDP, VLANs, STP, and LAG
- Identify the commands to configure and verify LLDP, VLANs, STP, and LAG
- Describe common storage networking features and benefits

IP Networking (25%)
- Identify the differences between private and public IP addressing
- Describe the properties of IPv4 addressing
- Describe the IPv6 address format and types of IPv6 address
- Explain the forwarding logic used by Layer 3 capable devices
- Identify the differences between static and dynamic routing

Network Services (5%)
- Identify the commands to configure and verify the operation of DHCP
- Describe the operation and behavior of the NTP service
- Identify the commands to configure and verify the operation of NTP

Security Essentials (10%)
- Describe the options for securing access to a network switch
- Identify the commands used to configure local authentication
- Describe the use and configuration of ACLs

Network Operations (10%)
- Identify the commands to transfer files to/from switches
- Identify common connectivity problems and their solutions
- Outline the recommended steps during a switch OS upgrade
- Identify the commands to enable a switch for SNMP monitoring

Duration
90 Minutes
(~60 Questions)
Pass Score
60%

Practice Test
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Automation (5%)
- Explain the role and advantages of using Smart Fabric Services
- Explain the role and advantages of using Smart Fabric Services

The percentages after each topic above reflects the approximate distribution of the total question set across the exam.

Exam Preparation

Dell Technologies provides free practice tests to assess your knowledge in preparation for the exam. Practice tests allow you to become familiar with the topics and question types you will find on the proctored exam. Your results on a practice test offer one indication of how prepared you are for the proctored exam and can highlight topics on which you need to study and train further. A passing score on the practice test does not guarantee a passing score on the certification exam.

Recommended Training

The following curriculum is recommended for candidates preparing to take this exam.

Please complete one of the following courses:

Course Title	Course Number	Modality	Available
Dell Networking Concepts and Features v2	ESNETD03880	On Demand	2022
Dell Networking Concepts and Features v2	ESNETS03879	Classroom	2022

Note: These exam description details reflect contents as of May 26, 2023.