



# Announcing DES-5222 Specialist – Implementation Engineer, PowerSwitch Data Center Exam Retirement

The **Specialist – Implementation Engineer, PowerSwitch Data Center Version 2.0** certification (DES-5222) will be replaced on May 19, 2023 by a new certification offering. The new certification is **Dell PowerSwitch Data Center Deploy 2023** (D-PDC-DY-23).

This certification is a part of the [new](#) Proven Professional framework focused on skill and outcome-based solutions certifications that was announced on February 6<sup>th</sup>.

## **How will this impact you?**

If you have already taken the aligned training or previously attempted the exam for the **Specialist – Implementation Engineer, PowerSwitch Data Center Version 2.0** certification, plan to take the DES-5222 exam by **June 23, 2023**.

- [View the DES-5222 exam description and practice test »](#)

Once achieved, your credential, Specialist – Implementation Engineer, PowerSwitch Data Center Version 2.0, will not expire.

If you're just beginning your certification journey, choose one of the new exams that aligns closest with the skills and knowledge you're looking to develop.

- **Dell PowerSwitch Data Center Deploy 2023** (D-PDC-DY-23) Exam Description and Practice Test Coming Soon »



# Specialist – Implementation Engineer, PowerSwitch Data Center Version 2.0

## Certification Description



[Proven Professional Website](#)

Engage with your peers in our [Proven Professional Community](#).

### Certification Overview

This certification validates the ability to perform intermediate skill level tasks in installing, configuring, maintaining, and troubleshooting Dell Data Center Networking products, features and implementation.

### Certification Requirements

To complete the requirements for this certification you must:

1. Achieve one of the following credentials
  - [Associate - Networking Version 1.0](#)
  - [Associate - Networking Version 2.0](#)
  - [Specialist - Implementation Engineer Data Center Networking Exam](#)
2. Pass the following Implementation Exam
  - [DES-5222 Specialist - Implementation Engineer, PowerSwitch Data Center Exam](#)

Note: These details reflect certification requirements as of January 20, 2023.

**Dell Technologies Partners:** Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services Delivery 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 delivery competencies upon completing the specific requirements outlined in the [enablement matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

### Other Certification Recommendations

Once you have achieved this Certification you may be interested in:

- [Specialist - Implementation Engineer, Campus Networking](#)
- [DES-5122 Specialist - Implementation Engineer, PowerSwitch Campus Exam](#)

\*The Proven Professional Program periodically updates certification requirements. Please check the [Proven Professional CertTracker](#) website regularly for the latest information and for other options to meet the Associate level requirement.

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## DES-5222 Specialist – Implementation Engineer, PowerSwitch Data Center Exam

### Exam Description



#### Overview

This exam is a qualifying exam for the **Specialist – Implementation Engineer, PowerSwitch Data Center** track.

This exam focuses on concepts related to the Data Center environment and Dell Networking's S-Series and Z-Series products. Focus is on Dell Networking SmartFabric OS10-based protocols and features.

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.

#### Part 1:

##### Duration

90 Minutes  
(~60 Questions)

##### Pass Score

63%

#### Part 2:

##### Duration

30 Minutes  
(~6 Simulations)

##### Pass Score

66%

#### [Simulator Demo](#)

#### [Practice Test](#)

Exam [DES-5222](#)

#### Products

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

- Dell Networking S-Series Switches
- Dell Networking Z-Series Switches

#### Exam Topics

Topics likely to be covered on this exam include:

##### Network Overview (5%)

- Identify the main components within the Data Center portfolio
- Review common Data Center networking topologies

##### FHRP (10%)

- Identify VRRP components
- Outline VRRP operation and behavior
- Configure and verify the operation of VRRP in OS10

##### Link Redundancy (20%)

- Describe the components that makeup a VLT configuration
- Configure and verify the operation of VLT in OS10
- Outline the components of UFD
- Configure and verify the operation of UFD in OS10

##### IP Routing (20%)

- Describe the components of OSPF
- Review the operation and behavior OSPF
- Configure and verify a single area of OSPF topology
- Outline the main components in BGP

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- Configure and verify the operation of BGP
- Describe Policy-Based Routing (PBR) basic operations
- Configure and verify the operation of PBR

#### **Security (10%)**

- Configure and verify ACLs in OS10
- Outline the components of AAA security
- Configure and verify the operation of AAA Security in OS10

#### **Data Center Technologies (30%)**

- Describe the operation and use case for VRF
- Configure and verify the operation of VRF in OS10
- Outline the basic operation of QoS
- Review traffic identification, marking and prioritization in QoS
- Configure and verify the operation of QoS in OS10
- Outline the basic operation of IP Multicast
- Configure and verify IGMP and PIM protocols
- Configure and verify the operation of Multicast in OS10
- Outline the operation of NTP, PTP, and Synch-E
- Configure and verify the operation of Network timing protocols

#### **Network Automation (5%)**

- Describe the rationale for network automation
- Examine the components within Smart Fabric Services and OMNI
- Configure and verify operation of SFS and OMNI

The percentages after each topic above reflects the approximate distribution of the total question set across the 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	Mode	Available
Dell PowerSwitch Datacenter Implementation and Administration	ESNETS04300	Classroom	2/3/2023
Dell PowerSwitch Datacenter Implementation and Administration	ESNETD04301	On Demand	1/19/2023

Note: These exam description details reflect contents as of January 20, 2023.

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



Dell Technologies believes the information in this document is accurate as of its publication date. The information is subject to change without notice.