

# Valid D-PE-FN-01 Test Prep, Exam D-PE-FN-01 Guide



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## EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Server Management: This section of the exam measures the skills of Server Support Engineers and addresses server management concepts, including in-band and out-of-band management. It compares Dell management utilities, explains BIOS vs. UEFI, and introduces at-the-box management. The section also explores iDRAC versions and the features of the Dell OpenManage System Administrator Suite (OMSA) to ensure engineers can monitor and manage PowerEdge servers effectively.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Introduction to Servers: This section of the exam measures the skills of Data Center Technicians and covers foundational concepts related to server characteristics and key storage components in Dell PowerEdge servers. It includes identifying server generations, interpreting server nomenclature, and understanding the purpose of hardware elements such as HDDs, SSDs, RAID controllers, BOSS, and M.2 drives. The goal is to ensure a clear grasp of server internals and their role in performance and reliability.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Security: This section of the exam measures the skills of Server Support Engineers and emphasizes the security features embedded in Dell PowerEdge servers. It includes hardware-based protections such as Silicon Root of Trust, TPM 2.0, and Secure Boot. The section also covers iDRAC's role in automated security, data protection using Self-Encrypting Drives (SEDs), and access control measures like Multifactor Authentication (MFA) and Role-Based Access Control (RBAC).</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>• Server Architecture and Roles: This section of the exam measures the skills of Server Support Engineers and focuses on understanding how various PowerEdge server types—like rack, tower, and blade servers—fit specific deployment needs. It covers interpreting server data flow, exploring storage topologies like DAS, NAS, and SAN, and understanding virtualization using hypervisors. The section also outlines how to position PowerEdge servers in edge, cloud, or core environments for use cases such as HPC, file sharing, or AI workloads.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Server Networking and Connectivity: This section of the exam measures the skills of Data Center Technicians and focuses on the fundamentals of networking services as they relate to PowerEdge servers. It includes identifying network cables and connections, and comparing different onboard network options. This knowledge is essential for establishing and maintaining server connectivity within diverse infrastructure environments.</li> </ul>

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## EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q78-Q83):

### NEW QUESTION # 78

What are the key characteristics of a Shielded Twisted Pair (STP) Ethernet cable compared to Unshielded Twisted Pair (UTP)?

- A. More susceptible to noise and lower costs
- B. Less susceptible to noise and higher costs
- C. Less susceptible to noise and similar costs
- D. Similar noise susceptibility and similar costs

**Answer: B**

Explanation:

Shielded Twisted Pair (STP) cables include an additional shielding layer that protects against electromagnetic interference (EMI) and noise, making them less susceptible to signal degradation in noisy environments compared to Unshielded Twisted Pair (UTP) cables. However, this shielding increases manufacturing costs, making STP more expensive. UTP is cheaper and sufficient for most standard networking but prone to noise in industrial settings. Similar costs or susceptibility do not apply, as STP's design explicitly addresses noise at a higher price point. This is crucial for server networking where reliable connectivity is essential. Exact extract: "Which techniques are used in STP network cables to enhance the signal quality? B. Shielding, wire twisting, and cancellation... Describe the cables and connections... Compare the on-board network on a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic:

Server Networking and Connectivity (6%).

### NEW QUESTION # 79

A company is looking to expand its compute environment and requires full-performance enterprise servers but wants to avoid over-provisioning resources and optimize cost-effectiveness.

Which PowerEdge server portfolio alignment provides feature-optimized technology and full-performance enterprise capabilities for scaling compute environments efficiently?

- A. Utilize Edge-optimized servers for enterprise scaling
- B. Deploy specialized modules for optimized compute
- C. A Recommend GPU-Optimized Servers for cost efficiency

- D. Suggest mainstream optimized PowerEdge servers for balanced scaling

**Answer: D**

#### **NEW QUESTION # 80**

What is a key advantage of differential backups compared to full backups?

- A. Only one copy to restore
- B. Better RPO
- C. Lower storage requirements
- D. Faster restore times

**Answer: D**

#### **NEW QUESTION # 81**

Which server attribute refers to its ability to undergo maintenance and repairs without causing system downtime?

- A. Reliability
- B. **High availability**
- C. Scalability
- D. Serviceability

**Answer: B**

Explanation:

High availability refers to a server's design that allows maintenance, repairs, and upgrades without interrupting operations, achieved through redundant components like power supplies, fans, and hot-swappable parts. This ensures continuous uptime critical for business environments. Reliability focuses on failure resistance, serviceability on ease of repair, and scalability on expansion. High availability is key for mission-critical PowerEdge servers. Exact extract: "Define the characteristics of a server... Explain the power distribution considerations... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

#### **NEW QUESTION # 82**

What benefit does Quick Sync provide regarding server management access?

- A. Provide advanced BIOS configuration options without server restart
- B. Eliminate the need for server physical reboot during management
- C. Enable remote server access using a dedicated network connection
- D. **Allow server management without a front bezel or management console**

**Answer: D**

Explanation:

Quick Sync in PowerEdge servers enables management tasks, such as configuration and monitoring, via a mobile device or laptop using NFC or Bluetooth, without requiring a front bezel or traditional management console. This simplifies access in constrained environments. It does not provide remote network access, BIOS configuration without restart, or eliminate reboots, focusing instead on direct, bezel-free management. Exact extract: "Compare the PowerEdge Servers management applications, utilities, and licensing... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Management (18%).

#### **NEW QUESTION # 83**

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