SPARC M5-32 Servers
Implementation Essentials Exam Study Guide

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Objective & Audience

Objective
Help you prepare to take the SPARC M5-32 Server Installation Essentials Exam by providing pointers to resources that you can use in your preparation.

Targeted Audience

- Technical Consultants
- Sales Consultants
- Implementation Experts
- Up-to-date training and field experience are recommended
Exam Topics & Objectives

Exam Topics
The SPARC M5-32 Server Installation Essentials exam consists of four core topics:
1. SPARC M5-32 Servers Overview and Architecture
2. Enterprise Installation Standards Overview
3. SPARC M5-32 Servers Installation
4. SPARC M5-32 Server Troubleshooting and Diagnostics
Exam Objectives

The exam objectives are defined by learner or practitioner level of knowledge:

- **Learner-level**: questions require the candidate to recall information to determine the correct answer.
  
  Example: Define the term network.

- **Practitioner-level**: questions require the candidate to derive the correct answer from the application of their knowledge, which can only be attained by extensive experience with the product.
  
  Example: The client requests xyz functionality, would you recommend a, b or c?
Training Options

For each exam topic there have been identified alternative training options that are available at Oracle. The training options are divided into three categories:

- **Boot Camps**
  The Boot Camps are designed as a "jump start" training to enhance your skills by providing role-based training on industry-leading Oracle solutions and services. The boot camps are built as concise, intensive, and real-time training to give partners a competitive advantage as they prepare to build powerful solutions for their own customer base. Partners can choose to attend these boot camps in class or in a live virtual class format to maximize the effectiveness and the time allocated to training.

- **Instructor-Led Training (delivered by Oracle University)**
  Partners can take any publicly-scheduled Oracle University courses at steep discounts. Benefit from hands on experience to gain real working skill and work toward Oracle certifications.

- **Online Training**
  Oracle Partners are entitled free access to the Oracle Knowledge Center (OUKC), a vast library of recorded product courses. New courses are regularly added to the library, providing partners with the latest information and training to master new products or to increase proficiency on the new releases.

  **OPN Competency Center** is an intelligent training tool that allows partners to manage their Oracle training with role-focused guided learning paths and measure their achievement toward Specialization:
Topic 1: SPARC M5-32 Server Overview

Objectives

- Describe the target workloads for the SPARC M5-32 Server
- Describe the key differentiators of the SPARC M5-32 Server processor architecture
- Describe how the System Interconnect works
- Describe Memory population rules
- Describe how the System Clock works
- Describe how PCIe cards are populated
- Describe the PCIe root complex structure and IO card population guidelines
- Describe the Power and Cooling system, including redundancy and air flow
- Describe the Fan Unit redundancy
- Define the Power Supply redundancy and power grid mapping
- Use the Operator Panel
- Describe memory configuration guidelines
- Explain the SPARC M5-32 Server physical domain technology
- Differentiate the core capabilities of SPARC M5-32 Server virtualization options (e.g., Oracle VM Server for SPARC, Solaris Zones)

Training Options

- OPN Competency Center
  - SPARC M5-32 Server Implementation Specialist

Sample Questions:

We have 16x CMUs, 4x IOUs, with up to 4x DCUs in a fully configured SPARC M5-32 Server, and the core interconnect component is SSB (Scalability Switch Board). How many SSBs can we have in a fully configured Server?

a) 16
b) 4
c) 20
d) 12
Topic 2: Enterprise Installation Standards

Objectives

- Use the Enterprise Installation Service methodology
- Setup and generate self-contained installation documentation
- Create an installation configuration plan
- Create a test procedures plan
- Perform system hardware acclimatization steps
- Label and route cables.
- Describe the electrical grounding requirements
- Describe Oracle Solaris installation requirements
- Describe Service processor requirements
- Define boot disk layout and mirroring

- OPN Competency Center
  - SPARC M5-32 Server Implementation Specialist

Sample Question:
Which three options are formal steps in the Enterprise Installation Standards (EIS) Methodology?

a) Site Audit
b) System Sizing
c) Installation Configuration Planning
d) System Test
e) Configuration Project Schedule
Topic 3: SPARC M5-32 Server Installation

Objectives

- Implement measures to prevent electrostatic discharge
- Configure the service processor
- Secure the service processor
- Update firmware
- Configure Physical Domains according to customer requirements
- Perform host power on and Power On Self Test (POST)
- Perform the initial boot and configuration of Solaris
- Test CPU and memory with Sun Validation Test Suite (SunVTS)
- Setup and configure Auto Service Request (ASR)
- Run Snapshot and Explorer
- Troubleshoot common installation issues

Training Options

- OPN Competency Center
  - SPARC M5-32 Server Implementation Specialist

Sample Questions:

You've used ILOM on other servers before but notice that there are two targets that are new to ILOM on the SPARC M5-32 server. Which are they?

a) /System
b) /Storage
c) /Servers
d) /SYS
e) /SP
### Topic 4: SPARC M5-32 Server Troubleshooting and Diagnostics

#### Objectives

<table>
<thead>
<tr>
<th>Objective</th>
<th>Level</th>
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<tbody>
<tr>
<td>• Describe field replaceable components that may apply to basic installation and configuration</td>
<td>Practitioner</td>
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<tr>
<td>• Verify system serial number</td>
<td>Practitioner</td>
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<tr>
<td>• Identify the CPU location from within Solaris and from the Service processor when errors are detected</td>
<td>Practitioner</td>
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<tr>
<td>• Map the CPU to the CMU, and the CMU to the DCU</td>
<td>Practitioner</td>
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<tr>
<td>• Perform PCIe card and riser removal and installation</td>
<td>Practitioner</td>
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<tr>
<td>• Use server management tools, (e.g., ILOM BUI, Ops Center, and ipmi)</td>
<td>Practitioner</td>
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<tr>
<td>• Use server monitoring tools (e.g., email, snmp, snapshot, explorer, ILOM BUI, Ops Center)</td>
<td>Practitioner</td>
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<tr>
<td>• Collect system error and state information (e.g., ILOM snapshot and Solaris Explorer)</td>
<td>Practitioner</td>
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#### Training Options

- **OPN Competency Center**
  - SPARC M5-32 Server Implementation Specialist

#### Sample Questions:

On a platform with multiple Pdomains, which of the properties below will report how many PCI cards are installed in Pdom0?

- **a)** `/Servers/PDomains/PDomain_0/System/PCI_Devices max_add_ons`
- **b)** `/System/DCUs/DCU_0/PCI_Devices`
- **c)** `/System/PCI_Devices installed_add_ons`
- **d)** `/Servers/PDomains/PDomain_0/System/PCI_Devices installed_add_ons`
Exam Registration

• **How to register for the exam?**
  You can register for all Oracle certification exams with Pearson VUE. Before a registration can be submitted, a Pearson VUE profile must be created using your Company ID. Your Company ID can be obtained by contacting your local Oracle Partner Business Center or by signing in to your OPN account. Your Company ID is located in the section on the right under “Company information”.

  Please follow these instructions in order to properly set-up your Pearson VUE account for the first time.

• **Have you completed an Oracle Certification Exam in the past?**
  Due to systems enhancements, each partner who has completed an Oracle Certification Exam will need to update their Pearson VUE profile in order to receive credit and for those records to appear in the OPN Competency Center.

• **How to get full recognition as Certified Implementation Specialist?**
  To get full recognition as a Certified Implementation Specialist you need to:
  A. Update your Pearson VUE profile with your Company ID
  B. Activate your Certview Account

  Please follow these instructions and your records will be properly recorded.
SOFTWARE. HARDWARE. COMPLETE.