

Pdf 1z0-1093-25 Format, 1z0-1093-25 Detailed Study Plan

2021 Study Plan Template

Bachelor of Engineering (Mechanical) (Honours)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 144 units of study according to the official course rule available at <https://students.flinders.edu.au/my-course/course-rules/undergrad/bengmch>

Students are responsible for planning their Core and Option topics ahead to ensure they meet the topic prerequisites.

A list of all topics, including topic prerequisite information and alternate study period availabilities, is available at [Topics 2021](#)

Semester 1, 2021 start:

Year 1	S1	ENGR1721 Engineering Programming	ENGR1711 Engineering Design	ENGR1732 Engineering Mechanics	MATH1121 Mathematics 1A
	S2	ENGR1201 Electronics	ENGR1401 Professional Skills	ENGR1722 Engineering Physics and Materials	MATH1122 Mathematics 1B
Year 2	S1	ENGR2711 Engineering Mathematics	ENGR2741 Mechanics and Structures	ENGR2751 Fluid Mechanics	ENGR2781 Mechanical Design Project
	NS1	ENGR2703 Mechanical Practice Certificate			
	S2	ENGR2722 Analysis of Engineering Systems	ENGR2771 Dynamics	ENGR2812 Engineering Materials	PHYS2712 Thermodynamics and Energy Systems
Year 3	S1	ENGR2752 Mechanics of Machines	ENGR3711 Control Systems	ENGR3751 Solid Mechanics	ENGR3761 Applied Thermo-Fluid Dynamics
	NS1	ENGR3750 Workplace Preparation (0 units)			
	S2	ENGR3704 Project Management for Engineering and Science	ENGR3700 Engineering Practicum (13.5 units) or ENGR3710 International Engineering Practicum		
Year 4	S1	ENGR7700A Honours Thesis	ENGR7700B Honours Thesis	ENGR7811 Advanced Mechanical Design	Year 4 Option topic ^
	S2	ENGR7700C Honours Thesis	ENGR7700D Honours Thesis	ENGR9742 Systems Engineering	Year 4 Option topic ^

This guide is correct at time of publishing (November 2020) but is subject to change.

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Oracle 1z0-1093-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Oracle Cloud Infrastructure Database Management Service: This section of the exam measures the skills of a Cloud Operations Analyst and provides insight into Oracle’s Database Management Service on OCI. It focuses on enabling the service for databases, monitoring their performance, and performing diagnostic and tuning activities. It also covers tasks related to the administration of databases running on Oracle Cloud Infrastructure.
Topic 2	<ul style="list-style-type: none"> NoSQL Database Service Technical Overview: This section of the exam measures the skills of a NoSQL Developer and explores Oracle’s NoSQL Database Service. It includes understanding the basics of NoSQL architecture, handling table-level security, rate limiting, and data modeling. It also covers concepts like provisioned throughput and the usage of language SDKs for interacting with NoSQL services on Oracle Cloud.
Topic 3	<ul style="list-style-type: none"> MySQL HeatWave Technical Overview: This section of the exam measures the skills of a MySQL Cloud Specialist and introduces MySQL HeatWave, Oracle’s high-performance analytics engine for MySQL. It includes provisioning, migrating existing MySQL databases to HeatWave, and working with its analytical and machine-learning capabilities. It also covers day-to-day operational activities within the MySQL HeatWave environment.
Topic 4	<ul style="list-style-type: none"> Base Database Service - VM (BaseDB): This section of the exam measures the skills of a Cloud Database Administrator and covers the foundational elements of Oracle’s Base Database Service. It includes understanding what the BaseDB service is, how to provision and manage it, and lifecycle operations such as backups, recovery, patching, and upgrades. It also tests familiarity with monitoring and management interfaces used to control and observe the BaseDB environment.
Topic 5	<ul style="list-style-type: none"> Exadata Database Service (ExaDB): This section of the exam measures the skills of a Database Infrastructure Engineer and focuses on the advanced Exadata Database Service. It includes the provisioning of Exadata systems, management of Exadata Cloud Infrastructure, and VM Cluster administration. It also evaluates knowledge of lifecycle management tasks and how to interact with various Exadata management utilities and interfaces.

Oracle Cloud Database Services 2025 Professional Sample Questions (Q10-Q15):

NEW QUESTION # 10

Which statement accurately reflects the impact of applying an Oracle-provided patch to the operating system on an Exadata Database Service instance using the Oracle Cloud Infrastructure (OCI) console?

- A. The OCI console-initiated patch process updates the database software and the OS, allowing for a rolling update strategy on the database nodes, minimizing downtime. Storage nodes are updated separately.
- B. The OCI console-initiated patch process only updates the database software, leaving the underlying OS untouched.
- C. The OCI console-initiated patch process automatically updates both the database software and the underlying operating system on all compute and storage nodes concurrently.
- D. The OCI console-initiated patch process only patches the storage servers; database nodes require manual OS patching.

Answer: A

Explanation:

OCI Patching Process:

The Oracle Cloud Infrastructure console simplifies the patching process by integrating both database software and OS patching. The rolling update strategy ensures that one node at a time is patched, reducing the downtime associated with updating the entire cluster. The storage nodes are updated in a separate process to ensure data integrity and availability.

Why the other options are incorrect:

- * A: The OCI console updates both the OS and database software.
- * B: Updates are performed in a rolling fashion, not concurrently.
- * D: The OCI console handles OS patching for both compute and storage nodes.

NEW QUESTION # 11

Within an IAM policy for Oracle NoSQL Database Cloud Service, what is the purpose of the "resource" element when defining table access permissions?

- A. To determine the geographical region where the NoSQL database is located.
- B. To set the expiration date for the IAM policy.
- C. To specify the IAM group that the policy applies to.
- **D. To define the specific NoSQL table or tables to which the policy's permissions apply.**

Answer: D

Explanation:

B: Define specific NoSQL table permissions:

- * The "resource" element specifies which Oracle NoSQL tables the IAM policy will apply to.
- * It allows fine-grained access control by linking specific tables to permission statements.
- * This ensures that only authorized users or groups can perform operations on specified tables.

Example IAM Policy Syntax:

```
{
  "action": "nosql:table:read",
  "resource": "ocid1.nosqltable.oc1..exampleuniqueID",
  "effect": "allow"
}
```

Why the other options are incorrect:

- * A. Specify IAM group: Groups are defined in the "subject" element, not the "resource" element.
- * C. Geographical region: The region is usually part of the OCID (Oracle Cloud Identifier), not directly specified in the resource element.
- * D. Set expiration date: Expiry is not defined within the "resource" element.

NEW QUESTION # 12

Which database lifecycle management operation in BaseDB requires the creation of a new database home and is non-reversible after completion?

- **A. Upgrading the Oracle Database software version.**
- B. Enabling Automatic Storage Management (ASM).
- C. Scaling the compute shape of the VM.
- D. Applying an operating system patch.
- E. Upgrading the Oracle Grid Infrastructure.

Answer: A

Explanation:

Database Software Upgrade:

When upgrading the Oracle Database software version on a BaseDB VM, a new Oracle Home is created to house the upgraded software. Once the database is moved to this new home, the process is not easily reversible.

- * Rolling back would require downgrading, which is a complex and risky process.
- * The new Oracle Home ensures that the upgraded database environment is isolated from the previous version, preventing compatibility conflicts.

Why the other options are incorrect:

- * A: Grid Infrastructure upgrades can be managed independently of the database upgrade.
- * B: Scaling VMs is a reversible operation.
- * D: OS patches do not impact the Oracle Home directly.
- * E: ASM configuration changes are reversible.

NEW QUESTION # 13

Which of the following DOES NOT directly contribute to the calculation of provisioned read capacity units (RCUs) required for a NoSQL Database Cloud Service table?

- A. Data consistency requirements.
- B. Average record size being read.
- C. Complexity of the security roles defined on the table.
- D. Number of reads expected per second.

Answer: C

Explanation:

RCU Calculation:

Read Capacity Units (RCUs) are determined based on data size (average record size), read frequency (number of reads per second), and consistency level (eventual vs. strong consistency). Complex security roles do not impact the calculation because they do not directly influence the amount of data read or the frequency of access.

Why the other options are correct:

- * A: Larger record sizes increase RCU requirements.
- * B: Higher read frequency demands more RCUs.
- * D: Strong consistency requires more read operations compared to eventual consistency.

NEW QUESTION # 14

Which of the following components is responsible for automatically offloading suitable queries from MySQL to the HeatWave accelerator?

- A. MySQL Shell
- B. Oracle Cloud Infrastructure (OCI) Load Balancer
- C. HeatWave AutoPilot
- D. MySQL Router
- E. MySQL Query Optimizer

Answer: E

Explanation:

A: MySQL Query Optimizer:

- * The MySQL Query Optimizer determines whether a query can benefit from HeatWave's in-memory, columnar processing.
- * If a query is deemed suitable, it is automatically offloaded to the HeatWave cluster.
- * This process significantly improves the execution speed of complex analytical queries.

Why the other options are incorrect:

- * B. HeatWave AutoPilot: Manages workload optimization but does not directly offload queries.
- * C. MySQL Router: Manages connection routing, not query offloading.
- * D. MySQL Shell: Primarily used for administrative tasks, not query optimization.
- * E. OCI Load Balancer: Manages network traffic distribution, unrelated to database query processing.

NEW QUESTION # 15

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