

Oracle Database 11g

1Z0-061 & 1Z0-052

Course Syllabus

27 Hours

Course Description

As the number one database organization in the world, Oracle Database 11g coursework prepares students for understanding important database features, functions, and tasks. The certification certifies competency in SQL development and basic database administration. This course covers the objectives for the **Oracle Database 11g Administrator Certified Associate** certification exams:

- **1Z0-061 - Oracle Database 12c: SQL Fundamentals AND**
- **1Z0-052 - Oracle Database 11g: Administration I**

Learning Objectives

Upon completion of the course, students will understand:

- Concepts and components of an Oracle Database 12c database, how to retrieve information from it using SQL, identify the steps for sorting, limiting, modifying, and formatting this information; functions, capabilities, and terminology associated with Oracle Database 12c's components and relational databases
- Steps for writing queries that convert data from one type to another, specify conditions, perform calculations on groups of rows or even tables, and return values from more than one table; writing queries that convert data types and implement conditional processing in a given scenario
- Steps for creating, defining, and dropping tables, manipulating how data can be viewed, and using schema objects to generate integers, improve queries, and rename tables; steps for querying data dictionary views to view schema objects, and for performing operations on large amounts of data
- Writing multiple-column, correlated, and scalar subqueries in a given scenario, solve a problem using the WITH clause, using regular expression functions to search for, replace, and manipulate data, and add a CHECK constraint to a column
- The major architectural components, memory structures, background processes, and logical and physical storage structures of the Oracle Database 11g Release 2; Oracle Grid Infrastructure and Oracle Database 11g software installations and how to use the Oracle Universal Installer
- Configuration of Oracle network environment, configuring and controlling listeners that allow database connections, creating Oracle Net Service aliases, and tools for configuring and managing the Oracle network; naming conventions and shared server usage
- Purpose and functions of tablespaces, how to create and manage database user accounts; creating privileges, roles, and profiles; using the password file and assigning quotas to users
- How to identify types of failure that can occur in an Oracle database, how to prepare a database for failure recovery, how to perform different types of backups; importance of performing recovery and use of tools like Recovery Manager (RMAN) and Data Recovery Advisor for file recovery operations
- Moving data using Data Pump Wizards and the command line, including the Enterprise Manager Support Workbench, My Oracle Support, service requests, and patch management; use of the SQL*Loader to move data from external files into an Oracle Database

Course Format

Oracle Database 11g is a self-paced, online course delivered through the learning management system Skillsoft. The site to access the coursework is su.skillport.com. Login credentials will be provided to you on the cohort launch date. If you do not receive them by the launch date, please check your Spam/Junk folder of your email and/or contact your advisor or O20 program coordinator. Once you have logged into your account, you can locate the coursework by selecting "View My Learning Plan."

Coursework is delivered through videos, tutorials, and tests. No textbooks are required for the course; however, students are encouraged to utilize additional resources to assist with certification preparation. Resource Guides with lists of supplemental study materials for each certification are available at <http://libguide.getvet.syr.edu/curriculum/>.

Course Completion Requirements

Oracle Database 11g coursework is due within 90 days from the assignment date. The course hours listed at the top of the syllabus reflect the time it would take to click through the slides and do not account for taking notes or the end of module tests. You must complete all eight modules listed in Topic 1, as well as all eight modules listed in Topic 2. Successful completion of a module is marked after you review the lesson videos and score 80% or higher on the end of module tests.

At the beginning of a module, you will be asked to take a pre-test. Scoring 80% or higher on the pre-test signifies competence in the information that will be covered; you will therefore be waived from completing the module. A non-credit certificate of completion will be awarded for successful completion of the coursework.

Industry Certification Requirements

In order for the program to fund your Oracle Database 11g Administrator Certified Associate certification exams you will need to meet the associated practice exam requirements. Your advisor or O2O coordinator will provide you with access to the practice exam(s) as well as completion instructions once you have finished the coursework.

Support

- For technical support, please contact Skillssoft Support at support.skillssoft.com
- For course content support, please utilize Skillssoft's Mentoring feature
 - Search the exam number in the top-right search bar within your Skillport account
 - The mentoring feature for that exam will populate under Resources
 - This feature exists for both exams
- For program support or questions, please contact your advisor or O2O program coordinator

Course Outline

Topic 1: Oracle Database Structured Query Language (SQL) Fundamentals

- 1.1 Oracle Database 12c: Introduction to SQL: Relational Database and SQL Developer
- 1.2 Oracle Database 12c: Introduction to SQL: SQL* Plus and SELECT Statement
- 1.3 Oracle Database 12c: Introduction to SQL: Restrict, Sort, and Customize Output
- 1.4 Oracle Database 12c: Introduction to SQL: Data Conversion and Aggregating Data
- 1.5 Oracle Database 12c: Introduction to SQL: Working with Joins and Subqueries
- 1.6 Oracle Database 12c: Introduction to SQL: Data Manipulation Language
- 1.7 Oracle Database 12c: Introduction to SQL: Working with SET Operators and DDL

Topic 2: Oracle Database 11g: Administration Workshop I Release 2

- 2.1 Oracle Database 11g Release 2: Database Architecture and Installation
- 2.2 Oracle Database 11g Release 2: Database Creation and Instance Management

- 2.3 Oracle Database 11g Release 2: The ASM Instance and Network Connectivity
- 2.4 Oracle Database 11g Release 2: Storage Structures and User Security
- 2.5 Oracle Database 11g Release 2: Managing Concurrency, Undo, and Auditing
- 2.6 Oracle Database 11g Release 2: Managing Database Maintenance and Performance
- 2.7 Oracle Database 11g Release 2: Backup and Recovery
- 2.8 Oracle Database 11g Release 2: Moving Data and Oracle Support