

PROFESSIONAL TRAINING COURSE



5 Days Course on
**Oracle Database 11g:
Administration Workshop I
Release 2**

ORACLE®



Two Sigma Technologies

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About the Course

This Oracle Database 11g: Administration Workshop I Release 2 course explores the fundamentals of basic database administration. Expert Oracle University instructors will reinforce topics with structured hands-on practices that will prepare you for the corresponding Oracle Certified Associate exam.

Prerequisites

Taken Oracle PL/SQL course or equivalent experience

Course Objectives

- Install Oracle Grid Infrastructure
- Install and configure Oracle Database 11g
- Configure Oracle Net services
- Monitor and administer undo data
- Manage the database storage structures
- Create and administer user accounts
- Perform basic backup and recovery of a database
- Manage data concurrency
- Monitor performance
- Describe Oracle Database Architecture

Course Settings

Venue/Date	Refer to Training Calendar
Timings	0900-1700
Inclusive	Certificates and notes
Course Fee	Contact Us at sales@2-sigma.com
Audience	IT Officer, Web Developer and Programmer

Oracle Admin – Schedule

Day 1	
9.00am – 10.00am	Exploring the Oracle Database Architecture <ul style="list-style-type: none"> • Oracle Database Architecture Overview • Oracle ASM Architecture Overview • Process Architecture • Memory structures • Logical and physical storage structures • ASM storage components
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	Installing your Oracle Software <ul style="list-style-type: none"> • Tasks of an Oracle Database Administrator • Tools Used to Administer an Oracle Database • Installation: System Requirements • Oracle Universal Installer (OUI) • Installing Oracle Grid Infrastructure • Installing Oracle Database Software • Silent Install
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Creating an Oracle Database <ul style="list-style-type: none"> • Planning the Database • Using the DBCA to Create a Database • Password Management • Creating a Database Design Template • Using the DBCA to Delete a Database Managing the Oracle Database Instance <ul style="list-style-type: none"> • Start and stop the Oracle database and components • Use Oracle Enterprise Manager • Access a database with SQLPlus • Modify database installation parameters • Describe the stages of database startup • Describe database shutdown options • View the alert log • Access dynamic performance views
Day 2	
9.00am – 10.00am	Manage the ASM Instance <ul style="list-style-type: none"> • Set up initialization parameter files for ASM instance • Start up and shut down ASM instances • Administer ASM disk groups
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	Configuring the Oracle Network Environment <ul style="list-style-type: none"> • Use Enterprise Manager to create and configure the Listener • Enable Oracle Restart to monitor the listener • Use tnsping to test Oracle Net connectivity • Identify when to use shared servers and when to use dedicated servers
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Managing Database Storage Structures <ul style="list-style-type: none"> • Storage Structures • How Table Data Is Stored • Anatomy of a Database Block • Space Management in Tablespaces

	<ul style="list-style-type: none"> • Tablespaces in the Preconfigured Database • Actions with Tablespaces • Oracle Managed Files (OMF) Validating Credit Cards Administering User Security <ul style="list-style-type: none"> • Database User Accounts • Predefined Administrative Accounts • Benefits of Roles • Predefined Roles • Implementing Profiles
Day 3	
9.00am – 10.00am	Managing Data Concurrency <ul style="list-style-type: none"> • Data Concurrency • Enqueue Mechanism • Resolving Lock Conflicts • Deadlocks
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	Managing Undo Data <ul style="list-style-type: none"> • Data Manipulation • Transactions and Undo Data • Undo Data Versus Redo Data • Configuring Undo Retention Implementing Oracle Database Auditing <ul style="list-style-type: none"> • Describe DBA responsibilities for security • Enable standard database auditing • Specify audit options • Review audit information • Maintain the audit trail
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Database Maintenance <ul style="list-style-type: none"> • Manage optimizer statistics • Manage the Automatic Workload Repository (AWR) • Use the Automatic Database Diagnostic Monitor (ADDM) • Describe and use the advisory framework • Set alert thresholds • Use server-generated alerts • Use automated tasks
Day 4	
9.00am – 10.00am	Performance Management <ul style="list-style-type: none"> • Performance Monitoring • Managing Memory Components • Enabling Automatic Memory Management (AMM) • Automatic Shared Memory Advisor
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	<ul style="list-style-type: none"> • Using Memory Advisors • Dynamic Performance Statistics • Troubleshooting and Tuning Views • Invalid and Unusable Objects Backup and Recovery Concepts <ul style="list-style-type: none"> • Part of Your Job • Statement Failure • User Error • Understanding Instance Recovery

	<ul style="list-style-type: none"> • Phases of Instance Recovery • Using the MTTR Advisor • Media Failure • Archive Log Files
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Performing Database Backups <ul style="list-style-type: none"> • Backup Solutions: Overview • Oracle Secure Backup • User-Managed Backup • Terminology • Recovery Manager (RMAN) • Configuring Backup Settings • Backing Up the Control File to a Trace File • Monitoring the Flash Recovery Area
Day 5	
9.00am – 10.00am	Performing Database Recovery <ul style="list-style-type: none"> • Opening a Database • Data Recovery Advisor • Loss of a Control File
10.00am – 10.30am	Breakfast
10.30am – 1.00pm	<ul style="list-style-type: none"> • Loss of a Redo Log File • Data Recovery Advisor • Data Failures • Listing Data Failures • Data Recovery Advisor Views Moving Data <ul style="list-style-type: none"> • Describe ways to move data • Create and use directory objects • Use SQL*Loader to move data • Use external tables to move data • General architecture of Oracle Data Pump • Use Data Pump export and import to move data
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Working with Support <ul style="list-style-type: none"> • Use the Enterprise Manager Support Workbench • Work with Oracle Support • Log service requests (SR) • Manage patches

More Information

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To register, please email to sales@2-sigma.com or fax the registration form to 03-61880602, we will contact you for further action.