



# Oracle Database Administration I

مدت دوره: ۴۰ ساعت

پیش نیاز(ها): آشنایی با Oracle SQL & PL/SQL

خلاصه:

This course is an introductory course for Oracle DBA's. The goal is this course is to cover the Oracle architecture and internal mechanisms such that the student is able to perform basic DBA tasks such as database creation, startup and shutdown, and database management. The course also covers Oracle networking basics and the Oracle utility programs

اهداف دوره: در انتهای این دوره دانشجویان قادر خواهند بود:

By the end of this course the student will have a functional understanding of the roles and duties involved in Oracle database administration and be able to perform basic Oracle DBA tasks.

سرفصل دوره:

## Inside the Oracle Architecture

- 1-1: Instance Architecture
- 1-2: SGA Architecture
- 1-3: Background processes
- 1-4: Control file management
- 1-5: UNDO and REDO logs
- 1-6: Users and privileges

## Managing an Oracle Instance

- 2-1: Initialization file management
- 2-2: Listener configuration
- 2-3: TNS names configuration
- 2-4: Data buffer configuration & sizing
- 2-5: Shared pool configuration & Sizing
- 2-6: Starting and stopping Oracle

## Oracle DBA tools

- 3-1: Enterprise Manager (OEM)
- 3-2: Schema, File & table space management
- 3-3: Database Maintenance
- 3-4: Monitoring Oracle
- 3-5: Utilities
- 3-6: Dictionary and v\$ views

## Managing Oracle objects

- 4-1: File and Table space structures
- 4-2: Table structures
- 4-3: Index structures
- 4-4: Object-oriented Oracle
- 4-5: Oracle Object Structures
- 4-6: STATSPACK performance management

## Performance Management

- 5-1: Bottleneck performance analysis
- 5-2: Tuning at the Instance Level
- 5-3: CBO behavior
- 5-4: SQL Tuning
- 5-5: Explain plan