

# Course overview:

## Oracle 9i Database Administration (DBA I)

(D004eng)



the courseware  
company

www.courseware.co.uk  
sales@courseware.co.uk

### Overview and objectives

This 5-day course provides a starting point for administration of the Oracle database. The first 2-day segment considers an in-depth discussion of the database architecture, including the Oracle instance, background processes, the SGA and memory structures, data files, tablespaces, extents, blocks and rows. Common administration tasks are also considered such as security, backup & recovery, physical storage of indexes and tables and many others.

On course completion, students will be able to:

- Install, startup and shutdown an Oracle database
- Explain the internal architecture of data, memory and process structures
- Administer a security policy for the database
- Configure a basic backup & recovery strategy
- Control physical storage of tables and indexes
- Build efficient databases with clusters and bitmap indexes

### Who should attend?

This course has been developed for Oracle database administrators who have attended the following courses or have equivalent knowledge and experience:

- Introduction To Oracle9i SQL
- Introduction To Oracle9i PL/SQL Language
- Introduction To Oracle9i Advanced SQL

#### The Oracle database environment

- Application architectures • The Oracle database • Components of a database • Instance configurations • About the administration tools

#### Memory structures within the instance

- Parameters which determine sga size

#### Instance and user processes

- Instance background processes • SQL execution processes

#### Installation and database creation

- Database administrator authentication • Pre-installation tasks • Post-installation tasks

#### Instance start-up and shut-down

- Database start-up • Database shut-down • Restricted sessions • Database files

#### Dynamic instance configuration

- Dynamic parameter changes • Determining the scope of changes • Viewing parameter changes

#### Using locally-managed tablespaces

- About tablespace maintenance • Locally-managed tablespaces • Temporary segments and tablespaces • The optimal flexible architecture
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### Using dictionary-managed tablespaces

- Dictionary-managed tablespaces • Migrating the tablespace management method

### Managing data files

- The storage hierarchy • Exploring the physical storage hierarchy • Managing the data files

### Managing redo logs

### Automatic undo space management

- Configuring automatic undo space management • Tuning automatic undo space management

### Implementing Oracle managed files

### Managing users

- User management • About privileges • Resource limits via profiles • Password management via profiles

### Managing privileges via roles

### Utilities, loading data

- Using the loader • Understanding the loader process • Control file options • Direct path loads

### Utilities, exporting and importing data

### Managing indexes

- Indexes and index segments • About B-tree indexes • About bitmap indexes • Index definitions within the data directory

### Managing clusters and indexed organized tables

### Globalization with national language support (NLS)

### Auditing database usage

- Auditing users and objects

### Specifying auditing actions

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