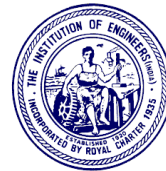# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. Telangana, India

INFORMATION TECHNOLOGY DIVISION

PROFESSIONAL DEVELOPMENT PROGRAMME

Oracle 19c Database Administration

11 – 15 Dec 2023
(Classroom Training)

Powered by

ESCIUpSkill
A Smart Learning Platform

Introduction

Database is the key to any business software application. Databases are widely used to store information about employees, customers, vendors, suppliers, partners, products, prices and transaction details. These databases created are accessed through the applications developed on top of database. Oracle is a database that responds very well with excellent performance in demanding environments. Oracle 19c is designed to handle the ever-increasing data needs of modern organizations. Effective management of Oracle 19c capabilities can help organizations ensure the integrity and security of data.

The Engineering Staff College of India (ESCI) has designed a 5 -day Hands-on practical Training Programme on "**Oracle 19c Database Administration**". to provide you with a firm foundation in administration of an Oracle Database. In this course you will gain a conceptual understanding of Oracle Database architecture and learn how to manage an Oracle Database in an effective and efficient manner. This course covers both Database as a Cloud Service and the on-premises Oracle Database

Objectives

- To Build high-quality and efficient database applications
- To Manage an Oracle Database instance.
- Configure the Oracle Network environment.
- Create and manage storage structures and users.
- Monitor the database and manage performance

Course Coverage

- Introduction to Oracle 19c Database
- Accessing an Oracle Database
- Creating an Oracle Database by Using DBCA
- Creating an Oracle Database by Using a SQL Command
- Starting Up and Shutting Down a Database Instance
- Managing Database Instances
- Oracle Net Services: Overview
- Configuring Naming Methods
- Configuring and Administering the Listener
- Configuring a Shared Server Architecture
- Configuring Oracle Connection Manager for Multiplexing and Access Control
- Creating PDBs from Seed
- Using Other Techniques to Create PDBs
- Managing PDBs
- Database Storage Overview
- Creating and Managing Tablespaces
- Improving Space Usage

- Managing Undo Data
- Creating and Managing User Accounts
- Configuring Privilege and Role Authorization
- Configuring User Resource Limits
- Implementing Oracle Database Auditing
- Introduction to Loading and Transporting Data
- Loading Data
- Transporting Data
- Using External Tables to Load and Transport Data
- Automated Maintenance Tasks: Overview
- Automated Maintenance Tasks: Managing Tasks and Windows
- Database Monitoring and Tuning Performance Overview
- Monitoring Database Performance
- Database Processes
- Managing Memory
- Analyzing SQL and Optimizing Access Paths

Centre for Promotion of Professional Excellence

Methodology

Methodology of the programme includes class room sessions with Lecture / Discussion with Hands- on Practical, with tools, audio visual aid, bench marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members

Target Participants

- Software Engineers, Application Developers, Database Developers, Database Administrators.
- Web Developers, Project Leaders, Business Systems Analysts, Functional Consultants, Technical Managers and people working in **Government**, Public sector, Private sector and Defence Organizations
- Faculty & Technical staff of Engineering Colleges & Universities.

Programme Dates & Timings

Venue : Engineering Staff College of India, GachiBowli, Hyderabad
Dates: 11 - 15 Dec 2023 (6 Hours per day)
session timings will be from 10:00 – 17:00 hrs with 1 Hour Lunch Break & 15 Minutes Tea break.

Course Director

Mr. Syed Azgar , MBA(IT), RHCE, MCSA
Sr Faculty & Head IT,
Information Technology Division,
Engineering Staff College of India, Hyderabad.

Course Fee for Offline Training

- ₹ **25,000/- (Residential Fee)** per participant. Fee includes course material, course kit, Single AC/ Double accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of the training program

GST @18% is to be paid extra and above the training fee as training. **PAN Card No.** AAATT3439Q. **GST No: 36AAATT3439Q1ZV, HS No.: 999293** (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).
Note: 18% GST Extra (GST Nil for All State & Central Govt. Departments like DRDO, DGQA & Other Govt. Departments).

Programme fee is to be paid in in favour of **"THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA"** by **Electronic Fund Transfer (EFT)** to ESCI – **Axis Bank** A/c No. **912010049234564** with The Axis Bank Ltd, Old Mumbai Hwy, Cyberhills Colony, P Janardhan Reddy Nagar, GachiBowli Hyderabad-500032 by NEFT/ RTGS/ IFSC Code No. UTIB 0000733 – MICR No.500211020. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

Registration

Online registration shall be available on ESCI **web portal** : http://www.escihyd.org/index.php/it-upcoming-trainings

To register manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to : **it@escihyd.org**

A Certificate of participation will be awarded to each participant on conclusion of the programme.