Course Title: Oracle Database: Administration Workshop I

Course Description:
Students will gain a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. Students will also learn how to create an operational database and properly manage the various structures in an effective and efficient manner including performance monitoring, database security, user management, and backup/recovery techniques. This course is designed to prepare you for the corresponding Oracle Certified Associate exam.

Course Prerequisite(s):
Oracle: Introduction to SQL

Course Objectives:
Student will learn to:
- Install and configure the Oracle Database.
- Create and administer user accounts in the Oracle Database.
- Create objects such as tablespaces, tables, indexes, materialized views. Monitor, troubleshoot, and maintain the Oracle Database.
- Configure Oracle Net services for the Oracle Database.

Textbook(s):
Oracle Database 11g: Administration Workshop I, Release 2
Oracle

Next Class Possibilities:
Oracle Database: Administration Workshop II

Lesson Plan – by week or session
Session 1: Exploring the Oracle database architecture
- Installing your Oracle Software
Session 2: Creating an Oracle Database using DBCA
- Managing the Database Instance
Session 3: Managing the ASM Instance
- Configuring the Oracle Network Environment
Session 4: Managing Database Storage Structures
- Administering User Security
Session 5: Managing Data Concurrency
- Managing Undo Data
Session 6: Implementing Database Auditing
- Database Maintenance
Session 7: Performance Management
- Backup and Recovery Concepts
Session 8: Performing Database Backups
- Performing Database Recovery
Session 9: Moving Data