



Database 11g Administrator
Certified Associate



Database 11g Administrator
Certified Professional

SUMMER 2009



OUR PARTNERSHIP

Monroe Community College (MCC) has been authorized to participate with Oracle® Corporation's Workforce Development Program (WDP). Oracle launched the program to address the continued global information technology (IT) worker shortage and need for accessible and low cost IT skills training. The program is designed to allow accredited academic institutions to deliver to participants a premium education on cutting-edge Oracle technologies based on Oracle University. The curriculum is designed for the Oracle Certified Professional ("OCP") program. The training delivered by MCC through the WDP prepares individuals for rigorous Oracle certifications. With the widely-acclaimed certifications, WDP students are readied for a variety of Oracle job-roles as well as career advancement. Oracle provides all of the proper tools to MCC to facilitate the delivery of their courseware. What this means to you is:

1. Exclusive privilege to use curriculum developed by and for Oracle University
2. Oracle certified instructors and certified facilities.
3. Academic pace to delivering the training, classes will generally meet no more than eight hours per week. Training is delivered over a seven month period.
4. 25% discounts on OCP exams.
5. Free software – A copy of Oracle Server with an educational use only license provided to each participant for of class use.
6. 50% discount on Oracle exam preparation software
7. Free subscription to Oracle Magazine.

The WDP is meant as an alternative to Oracle Corporation's, Oracle University (OU). Most OU's tend to deliver their training in either three or five-day formats. MCC's training will be held two evenings per week, with breaks throughout the life of the program.

WHY CHOOSE ORACLE CERTIFICATION?

With the recent changes in the IT job market, becoming an **Oracle Certified Professional** has become even more attractive. Where many IT careers have become saturated or the demand has fallen off, Oracle has continued to do well due to its market dominance with companies in the areas of finance, banking and especially health care. These recession-resistant sectors have enormous database needs and have shown a marked preference for an Oracle solution. Becoming an Oracle Certified Professional is the preferred method for joining this profession. According to a recent report by the U. S. Department of Labor, Bureau of Labor Statistics, between 2002 and 2012, "Employment in computer systems design and related services will grow by 54.6 percent and add more than one-third of all new jobs in professional, scientific, and technical services. Employment growth will be driven by the increasing reliance of businesses on information technology and the continuing importance of maintaining system and network security. Management, scientific, and technical consulting services also will grow very rapidly, by 55.4 percent, spurred by the increased use of new technology and computer software and the growing complexity of business". You can view this report by going to: <http://www.bls.gov/oco/oco2003.htm>. DOL projections clearly show that 3 out of the 10 fastest growing occupations over the next 8 years are in the information technology sector: <http://www.bls.gov/news.release/ecopro.t04.htm>

Oracle certifications are tangible, industry-recognized credentials that can help you succeed in your IT career and provide measurable benefits to an employer. They are a reliable validation of training and experience that can accelerate your professional development, improve your productivity, and enhance your credibility.

For IT professionals and managers, each Oracle certification level signifies a benchmark of experience and expertise recognized for its value and relevance in the IT industry. Today there are over 440,000 Oracle Certified Professionals worldwide. Database Administrators with Oracle Certifications are some of the most sought after, in-demand personnel anywhere. Oracle has certified over 60,000 OCP's from 62 countries.

GENERAL INFORMATION ON ORACLE 11g ADMINISTRATOR CERTIFIED ASSOCIATE (OCA)



This certification is your first step towards success as an Oracle professional, designed to give you a firm foundation in basic database administration. In this class, you'll learn how to install and maintain an Oracle database.

Participants 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. The lesson topics are reinforced with structured hands-on practices.

The Oracle Database 11g OCA is the first step toward a successful career as an Oracle database professional. Passing the exams ensures knowledge of basic database administration tasks and an understanding of the Oracle database architecture and how its components work and interact with one another. The OCA credential enables database professionals to prove competency in basic skills required to manage the industry's most advanced database technology, using cutting edge tools. Set yourself apart from the rest and get the information technology job you deserve. At the conclusion of this program you will be able to:

- Prove ability to perform foundation level Oracle tasks with Oracle 11g
- Carry the Oracle-approved mark of your skill level
- Help you and your employers improve productivity

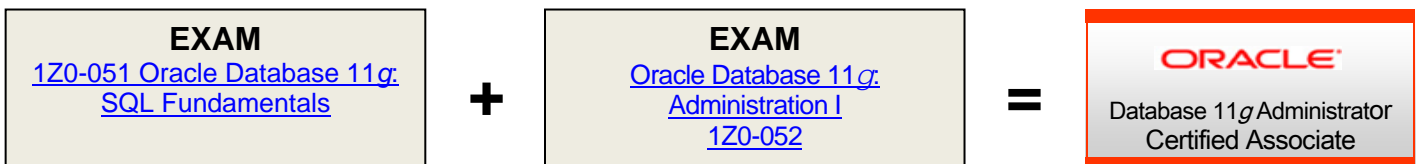
PREREQUISITES:

To enter this program an individual should possess:

- a working knowledge of Microsoft Windows 95, 98, or 2000 including customizing the Start menu, configuring the desktop, using Control Panel, moving and sizing windows, and switching between tasks
- candidates should have some experience implementing and administering desktop and network operating systems
- a working knowledge of software and hardware in stand-alone personal computers, including the ability to install application software and customize certain files
- a basic knowledge of computer hardware components, including memory, hard disks, central processing units (CPUs), communication and printer ports, display adapters, and pointing devices
- a desire to learn database concepts and skills

The program does assume a certain level of familiarity with computing systems and a previous background in database systems is **recommended** but not required.

OUR PROGRAM



Module 1 - Oracle Database 11g: SQL Fundamentals

July 16, 21, 23, 28 & 30 /August 4 & 6

6-9PM

Overview:

This course offers students an introduction to Oracle Database 11g database technology. In this course students learn the concepts of relational databases. This course provides the essential SQL skills that allow developers to write queries against

single and multiple tables, manipulate data in tables, and create database objects. Students learn to control privileges at the object and system level.

This course covers creating indexes and constraints, and altering existing schema objects. Students also learn how to create and query external tables. Students learn to use the advanced features of SQL in order to query and manipulate data within the database, use the dictionary views to retrieve metadata and create reports about their schema objects. Students also learn some of the date-time functions available in the Oracle Database. This course discusses how to use the regular expression support in SQL.

Prerequisites:

Familiarity with data processing concepts and techniques.

Topics to be covered:

- Introducing Oracle Database 11g
- Retrieving Data Using the SQL SELECT Statement
- Restricting and Sorting Data
- Using Single-Row Functions to Customize Output
- Using Conversion Functions and Conditional Expressions
- Reporting Aggregated Data Using the Group Functions
- Displaying Data From Multiple Tables
- Using Sub-queries to Solve Queries
- Using the SET Operators
- Manipulating Data
- Using DDL Statements to Create and Manage Tables
- Creating Other Schema Objects
- Controlling User Access
- Managing Schema Objects
- Managing Objects with Data Dictionary Views
- Manipulating Large Data Sets
- Managing Data in Different Time Zones
- Retrieving Data Using Sub-queries
- Regular Expression Support

Within our program, to achieve OCA 11g certification you must first successfully complete **Exam # 1Z0-051 Oracle Database 11g: SQL Fundamentals**. It is recommended that all participants use the break between Modules 1 and 2 to sit for this first exam.

Module 2 - Oracle Database 11g: Administration 1

August 18, 20, 25 & 27 / September 1, 3, 8, 10, 15, 17, 22 & 24

6-9PM

Overview:

This course is designed to give students a firm foundation in basic administration of Oracle Database 11g. Participants learn how to install and maintain Oracle Database 11g. They'll gain a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. Participants 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. The lesson topics are reinforced with structured hands-on practices.

Prerequisites:

Working knowledge of SQL or completion of Module 1

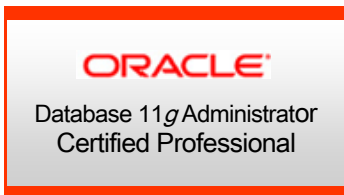
Topics to be covered:

- Exploring the Oracle Database Architecture
- Preparing the Database Environment
- Create an Oracle Database
- Managing the Oracle Instance

- Configuring the Oracle Network Environment
- Managing Database Storage Structures
- Administering User Security
- Managing Schema Objects
- Managing Data and Concurrency
- Managing Undo Data
- Implementing Oracle Database Security
- Database Maintenance
- Performance Management
- Backup and Recovery Concepts
- Performing Database Backups
- Performing Database Recovery
- Moving Data
- Enhancing Database Capabilities

Within our program, to achieve OCA 11g certification you must next successfully complete **Exam # 1Z0-052 Oracle Database 11g: Administration 1**. It is recommended that all participants use the break between Modules 2 and 4 to sit for this first exam.

GENERAL INFORMATION ON ORACLE 11g ADMINISTRATOR CERTIFIED PROFESSIONAL (OCP)



When you are ready to advance your Oracle 11g database expertise then it's time to take the next step toward becoming an **Oracle 11g Administrator Certified Professional (OCP)**. This is a credential for true database professional that has the skills to set up and manage critical Oracle Database 11g functions and the know-how to keep it running at maximum efficiency. Acquiring an OCP credential is a real professional accomplishment. The OCP credential is proof to employers, peers and the technical community that you are a skilled professional and have taken a critical step in building your career.

The Oracle Certified Professional recognizes achievement in mastering intermediate and advanced Oracle skills. Demonstrate proficiency and receive recognition in managing the implementation of Oracle technology while putting your career on the fast track.

- Gain additional job opportunities - fill the Oracle skills gap in the marketplace
- Help your employers accelerate adoption of technology solutions and maximize ROI
- Increased opportunity to earn 21% more on average than your non certified counterparts

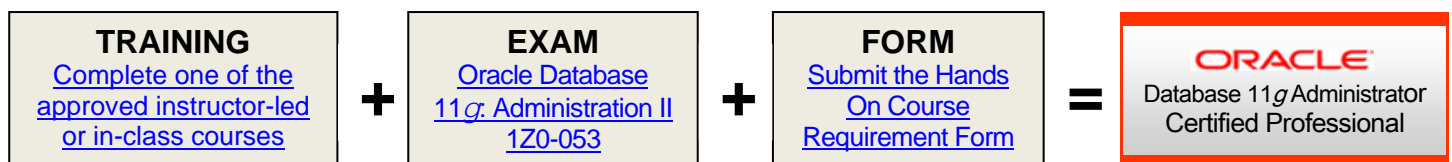
PREREQUISITES:

To enter this program an individual should possess:

- Successful completion of the previous modules (not necessarily taken within this program)

HANDS-ON COURSE REQUIREMENT

Oracle requires that all candidates pursuing the Oracle 11g DBA Certified Professional credential must attend one instructor-led course either in-class or online to receive certified status. To meet the requirement, candidates must attend a course offered at an Oracle University center or at an Oracle Authorized Education Center or Partner. MCC through Oracle's WDP is an authorized Oracle education partner. The following Module 2 fulfills this requirement.



Module 3 - Oracle Database 11g: Administration II

October 6, 8, 13, 15, 20, 22, 27, 29 / November 3, 5, 10 & 12

6-9 PM

Overview:

In this course, the concepts and architecture that support backup and recovery, along with the steps of how to carry it out in various ways and situations, are covered in detail. This includes how to define and test your own backup and recovery scenarios.

Also, the participants learn to manage memory effectively and to perform some performance evaluation and tuning tasks, including using some of the advisors. All types of flashback technologies, scheduling jobs inside and outside of the database, and controlling system resource usage are covered. Topics are reinforced with hands-on practices.

Prerequisites:

Completion of Modules 1 & 2

Topics to be covered include:

- Database Architecture and ASM
- Configuring for Recoverability
- Using the RMAN Recovery Catalog
- Configuring Backup Specifications
- Creating Backups
- Performing User-Managed Backup and Recovery
- Using RMAN to Perform Recovery
- Using RMAN to Duplicate a Database
- Performing Tablespace Point-in-time Recovery
- Monitoring and Tuning RMAN
- Using Flashback Technology
- Using Flashback Database
- Diagnosing the Database
- Managing Memory
- Managing Database Performance
- Using the Segment Advisor
- Managing Resources
- Automating Tasks with the Scheduler
- Administering the Scheduler
- Globalization

To achieve OCP 11g certification you must successfully complete the exam associated with the OCA program and then one additional exams known as: **Exam # 1Z0-053 Oracle Database 11g: Administration II.**

WHY THESE CERTIFICATIONS, AND THIS PROGRAM, MIGHT BE RIGHT FOR YOU...

Industry analysts and experts agree, Oracle Certifications are among the most sought after badges of credibility for expertise in the Information Technology marketplace. IT professionals can differentiate themselves from their peers or competition and gain valuable job security by earning an Oracle certification.

The competition for IT jobs is intense. Individuals, experienced or new to the profession, need to know what skills make them attractive to employers. Employers look for ways to distinguish employees and prospective employees who have the solid foundation of skills needed for effective performance. The OCP program helps the IT industry make these distinctions by establishing a standard of competence in specific job roles. An OCP is a valuable, industry-recognized credential that signifies a proven level of knowledge and skill.

Most important is our approach to learning these technologies. We will provide high quality, certified instructor lead training, over an extended period of time, with plenty of "hands-on" opportunity. We feel that this combination is a great alternative for people seeking to learn this information. This is not an "intensive", or "crash" course. A typical certification course usually runs from Monday through Friday, 8:30 am to 4:30 p.m. This delivery is optimum for a seasoned IT professional

whose employer will provide the time away from work and pay the program fee. The same course in this program would be delivered over six week period, two nights a week, three-hours per session. Generally our participants find it difficult to find the time during normal business hours to attend such training and this two-night a week schedule is one that they can maintain. Given the complexity of this program, time will be a great asset to properly learning the information.

COST:

The fee for OCA (Modules 1 & 2) program:	\$2,000
The fee for OCP (Module 1-3) program:	\$3,500

Providing space is available individuals may elect to enroll in one Module at a time. The cost for this is:

Module 1:	<u>Oracle Database 11g: SQL Fundamentals</u>	\$1,000
Module 2:	<u>Oracle Database 11g: Administration 1</u>	\$1,500
Module 3:	<u>Oracle Database 11g: Administration II</u>	\$1,500

All fees include books and materials and are due prior to the start of the first class. The costs of the exams are \$125 each less a 25% discount if taking them through this program.

LOCATION:

All classes will be held at: Monroe Community College, Damon City Campus, 228 East Main Street in downtown Rochester

FINANCING:



If you are an experience IT professional and find yourself out of work, this may be the best time to upgrade your skills with some type of technical certification. RochesterWorks! has funding available for qualified individuals for training that will help them get back to work. This program may be a natural fit. Please go to their website www.rochesterworks.org for more information.

If you're currently employed and your company wishes to sponsor you in this program, MCC draft an agreement that specifies the services we'll deliver and we can then provide an invoice for that service. Grants may be available for your company to help defray the cost of the training and exams. Contact Chuck Caples @ 585-262-1429 for more information.

APPLICATION PROCEDURE

At this time on-line registration is unavailable for this program. If you're interested in attending please contact Charles Caples at 585-262-142 or ccaples@monroecc.edu.

CANCELLATION / REFUND POLICY

You may cancel your registration 10 business days prior to the start of the program. The request must be received in writing. Cancellations received later than this date are subject to forfeiting the application deposit. You will receive a full refund if you cancel within the allotted time. Refunds will be made within 60 days of cancellation. If a student attends a portion of the program, and does not complete, the student will be liable for:

1. The registration deposit
2. The cost of any textbooks or supplies accepted
3. Tuition liability as of the day the student notifies MCC of his/her desire to cancel from the class
4. No refunds are available after program completion

The effective termination for refund purposes will be the earliest of either the last date of attendance or the date of receipt of written notice from the student. The tuition liability will be a pro rata refund for the remaining class hours for students who cancel from class according to the following table:

<u>If termination occurs</u>	<u>MCC may keep</u>
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0-3% of the program	00% (only the application deposit)
4-15% of the program	20%
16-30% of the program	40%
31-45% of the program	60%
46-60% of the program	80%
After 60% of the program	100%

For questions please call:

Chuck Caples (585) 262-1429 or ccaples@monroecc.edu