

1 day - Instructor led

Certification: Microsoft Certified Applications Specialist: Microsoft® Office Access 2007

Course Description

Most organizations maintain and manage large amounts of information. One of the most efficient and powerful ways of managing data is by using relational databases. Information can be stored, linked, and managed using a single relational database application and its associated tools. In this course, you will examine the basic database concepts, and create and modify databases and their various objects using the Microsoft® Office Access™ 2007 relational database application.

Course Objective: You will create and modify new databases and their various objects.

Target Student: This course is designed for students who wish to learn the basic operations of the Microsoft Access database application to perform their day-to-day responsibilities, and to understand the advantages that using a relational database application can bring to their business processes. The Level 1 course is for the individual whose job responsibilities include designing and creating new databases, tables, and relationships; creating and maintaining records; locating records; and producing reports based on the information in the database. Individuals who want to pursue Microsoft Certified Application Specialist certification in Microsoft Office Access 2007 can also take this course.

Prerequisites: Students should be familiar with using personal computers and have used a mouse and keyboard. You should be comfortable in the Windows environment and be able to use Windows to manage information on your computer. Specifically, you should be able to launch and close programs; navigate to information stored on the computer; and manage files and folders. Students should have completed the following courses or possess equivalent knowledge before starting with this course: Windows XP Professional. Microsoft Excel knowledge is helpful.

Performance-Based Objectives

- Examine the basic database concepts and explore the Microsoft Office Access 2007 environment.
- Design a simple database.
- Build a new database with related tables.
- Manage data in a table.
- Query a database using different methods.
- Design forms.
- Generate reports.



Lesson 1: Exploring the Microsoft® Office Access™ 2007 Environment

Topic 1A: Examine Database Concepts

Topic 1B: Explore the User Interface

Topic 1C: Use an Existing Access Database

Topic 1D: Customize the Access Environment

Topic 1E: Obtain Help

Lesson 2: Designing a Database

Topic 2A: Describe the Relational Database Design Process

Topic 2B: Define Database Purpose

Topic 2C: Review Existing Data

Topic 2D: Determine Fields

Topic 2E: Group Fields into Tables

Topic 2F: Normalize Data

Topic 2G: Designate Primary and Foreign Keys

Topic 2H: Determine Table Relationships

Lesson 3: Building a Database

Topic 3A: Create a New Database

Topic 3B: Create a Table

Topic 3C: Manage Tables

Topic 3D: Create a Table Relationship

Topic 3E: Save a Database as a Previous Version

Lesson 4: Managing Data in a Table

Topic 4A: Modify Table Data

Topic 4B: Sort Records

Topic 4C: Work with Subdatasheets

Lesson 5: Querying a Database

Topic 5A: Filter Records

Topic 5B: Create a Query

Topic 5C: Add Criteria to a Query

Topic 5D: Add a Calculated Field to a Query

Topic 5E: Perform Calculations on a Record Grouping

Lesson 6: Designing Forms

Topic 6A: View Data Using an Access Form

Topic 6B: Create a Form

Topic 6C: Modify the Design of a Form

Lesson 7: Generating Reports

Topic 7A: View an Access Report

Topic 7B: Create a Report

Topic 7C: Add a Custom Calculated Field to a Report

Topic 7D: Format the Controls in a Report

Topic 7E: Apply an AutoFormat Style to a Report

Topic 7F: Prepare a Report for Print



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Course Description

You have the basic skills needed to work with Microsoft® Office Access™ 2007 databases, including creating and working with Access tables, relationships, queries, forms, and reports. But so far, you have been focusing only on essential database user skills. In this course, you will consider how to maintain data consistency, how to customize database components, and how to share Access data with other applications.

Course Objective: You will maintain data consistency and integrity; improve queries, forms, and reports; and also integrate Microsoft® Office Access™ 2007 with other applications.

Target Student: Microsoft Office Access 2007: Level 2 is designed for students who would like to learn intermediate-level operations of the Microsoft Office Access program. The Level 2 course is for individuals whose job responsibilities include maintaining data integrity; handling complex queries, forms, and reports; and sharing data between Access and other applications. This course is also a prerequisite to taking more advanced courses in Access 2007. Individuals who want to pursue Microsoft Certified Application Specialist certification in Microsoft Office Access 2007 can also take this course.

Prerequisites: To ensure the successful completion of Microsoft Office Access 2007: Level 2, the completion of the Microsoft Office Access 2007: Level 1 course, or equivalent knowledge, is recommended.

Performance-Based Objectives

- Modify the design and field properties of a table to streamline data entry and maintain data integrity.
- Retrieve data from tables using joins.
- Create flexible queries to display specified records, allow for user-determined query criteria, and modify data using queries.
- Enhance the capabilities of a form by grouping form controls and making other aesthetic improvements to make forms work more efficiently and intuitively for the user.
- Customize reports to organize the displayed information and produce specific print layouts.
- Share data across different applications.



Lesson 1: Controlling Data Entry

Topic 1A: Restrict Data Entry Using Field Properties Topic 1B: Establish a Pattern for Entering Field Values

Topic 1C: Create a List of Values for a Field

Lesson 2: Joining Tables

Topic 2A: Create Query Joins Topic 2B: Join Unrelated Tables Topic 2C: Relate Data Within a Table

Lesson 3: Creating Flexible Queries

Topic 3A: Set Select Query Properties Topic 3B: Create Parameter Queries Topic 3C: Create Action Queries

Lesson 4: Improving Forms

Topic 4A: Design a Form Layout

Topic 4B: Enhance the Appearance of a Form Topic 4C: Restrict Data Entry in Forms Topic 4D: Add a Command Button to a Form

Topic 4E: Create a Subform

Lesson 5: Customizing Reports

Topic 5A: Organize Report Information

Topic 5B: Format the Report

Topic 5C: Set Report Control Properties Topic 5D: Control Report Pagination Topic 5E: Summarize Report Information

Topic 5F: Add a Subreport to an Existing Report

Topic 5G: Create a Mailing Label Report

Lesson 6: Sharing Data Across Applications

Topic 6A: Import Data into Access

Topic 6B: Export Data

Topic 6C: Analyze Access Data in Excel Topic 6D: Export Data to a Text File

Topic 6E: Merge Access Data with a Word Document



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Course Description

Your training in and use of Microsoft® Office Access™ 2007 has provided you with a solid foundation in the basic and intermediate skills of working in Microsoft® Office Access™ 2007. You have worked with the various Access objects, such as tables, queries, forms, and reports. In this course, you will extend your knowledge into some of the more specialized and advanced capabilities of Access by structuring existing data, writing advanced queries, working with macros, enhancing forms and reports, and maintaining a database.

Course Objective: You will create complex Access databases by structuring existing data, writing advanced queries, working with macros, making effective use of forms and reports, and performing database maintenance.

Target Student: This course is for the individual whose job responsibilities include working with related tables; creating advanced queries, forms, and reports; writing macros to automate common tasks; and performing general database maintenance. It is also designed as one in a series of courses for students pursuing the Microsoft® Office Specialist Certification for Microsoft® Office Access™ 2007, and it is a prerequisite to take more advanced courses in Microsoft® Office Access™ 2007.

Prerequisites: To ensure your success, knowledge of basic and intermediate features of Access tables, relationships, and queries, forms, and reports is recommended. Access 2007 Level 1 and Level 2 courses or equivalent knowledge are recommended:

Performance-Based Objectives

- Restructure data into appropriate tables to ensure data dependency and minimize redundancy.
- Write advanced queries to analyze and summarize data.
- Create and revise Microsoft® Office Access™ 2007 macros.
- Display data more effectively in a form.
- Customize reports by using various Microsoft® Office Access™ 2007 features, making them
 more effective.
- Maintain your database using tools provided by Microsoft® Office Access™ 2007.

Lesson 1: Structuring Existing Data

Topic 1A: Analyze Tables

Topic 1B: Create a Junction Table Topic 1C: Improve Table Structure



Topic 2A: Create Subqueries

Topic 2B: Create Unmatched and Duplicate Queries Topic 2C: Group and Summarize Records Using Criteria Topic 2D: Summarize Data Using a Crosstab Query Topic 2E: Create a PivotTable and a PivotChart

Lesson 3: Simplifying Tasks with Macros

Topic 3A: Create a Macro Topic 3B: Attach a Macro

Topic 3C: Restrict Records Using a Condition

Topic 3D: Validate Data Using a Macro

Topic 3E: Automate Data Entry Using a Macro

Lesson 4: Making Effective Use of Forms

Topic 4A: Display a Calendar on a Form

Topic 4B: Organize Information with Tab Pages Topic 4C: Display a Summary of Data in a Form

Lesson 5: Making Reports More Effective

Topic 5A: Include a Chart in a Report

Topic 5B: Print Data in Columns

Topic 5C: Cancel Printing of a Blank Report

Topic 5D: Create a Report Snapshot

Lesson 6: Maintaining an Access Database

Topic 6A: Link Tables to External Data Sources

Topic 6B: Manage a Database

Topic 6C: Determine Object Dependency

Topic 6D: Document a Database

Topic 6E: Analyze the Performance of a Database





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Course Description

In previous levels, you were introduced to the various features of Microsoft® Office Access™ 2007 that dealt with local database management. However, effective database management calls for mastering the advanced administrative and collaborative features of Access. In this course, you will exchange data with other applications, automate business processes by using VBA code, and secure and share databases.

Course Objective: You will exchange data with other applications, automate business processes by using VBA code, and secure and share databases.

Target Student: This course is designed for students who have a thorough understanding of the basic and advanced user features of the Microsoft® Office Access[™] 2007 application, and are interested in learning introductory level administrator skill sets. The course is also for the student who may be working in a web-based environment and may need to adapt Access applications to the environment.

Prerequisites: To ensure the successful completion of Microsoft® Office Access[™] 2007: Level 4, the following courses or equivalent knowledge is recommended: Microsoft® Office Access[™] 2007: Level 1Microsoft® Office Access[™] 2007: Level 2Microsoft® Office Access[™] 2007: Level 3

Performance-Based Objectives

- Share Access data with other applications.
- Use VBA to automate a business process.
- Create and modify a database switchboard, and set the startup options.
- Secure databases.
- Share databases using a SharePoint site.



Lesson 1: Integrating Access into Your Business

Topic 1A: Import XML Data into an Access Database

Topic 1B: Export Access Data to XML Format

Topic 1C: Export Data to the Outlook Address Book

Topic 1D: Collect Data Through Email Messages

Lesson 2: Automating a Business Process with VBA

Topic 2A: Create a Standard Module

Topic 2B: Develop Code

Topic 2C: Call a Procedure from a Form

Topic 2D: Run the Procedure

Lesson 3: Managing Switchboards

Topic 3A: Create a Database Switchboard

Topic 3B: Modify a Database Switchboard

Topic 3C: Set the Startup Options

Lesson 4: Distributing and Securing Databases

Topic 4A: Split a Database

Topic 4B: Implement Security

Topic 4C: Set Passwords

Topic 4D: Convert an Access Database to an ACCDE File

Topic 4E: Package a Database with a Digital Signature

Lesson 5: Sharing Databases Using a SharePoint Site

Topic 5A: Export a Table to a SharePoint List

Topic 5B: Import Data from a SharePoint List

Topic 5C: Publish a Database to a SharePoint Site

Topic 5D: Move a Database to a SharePoint Site

Topic 5E: Work Offline

Appendix A: Microsoft Office Specialist Program



Microsoft Office Access 2007: VBA Programming

1 day - Instructor led

Course Description

This course is designed for experienced Access 2007 users who want to learn ActiveX Data Objects, control structures, and the basics of VBA programming.

Course Content

Lesson 1: Visual Basic Editor

Topic 1A: Objects

Topic 1B: Object Browser Topic 1C: Collections

Lesson 2: Programming basics

Topic 2A: Working with data

Topic 2B: Scope

Lesson 3: Control structures

Topic 3A: Decision structures
Topic 3B: Loop structures

Lesson 4: ActiveX Data Objects

Topic 4A: Getting started with ActiveX Data Objects

Topic 4B: Working with ActiveX Data Objects

Lesson 5: VBA debugging tools

Topic 5A: Errors in code

Topic 5B: Debugging techniques
Topic 5C: Handling runtime errors

Appendix A: Office integration

Topic A: Automating Office 2007

Topic B: Working with Word from Access Topic C: Working with Excel from Access