

# Microsoft® Office Access™ 2007: Level 3

Course length: 1.0 day

## 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. The following courses or equivalent knowledge are recommended:

- Microsoft® Office Access™ 2007: Level 1
- Microsoft® Office Access™ 2007: Level 2

**Delivery Method:** Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

## Objectives

Upon successful completion of this course, students will be able to:

- 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.

# Course Content

## Lesson 1: Structuring Existing Data

- Topic 1A: Analyze Tables
- Topic 1B: Create a Junction Table
- Topic 1C: Improve Table Structure

## Lesson 2: Writing Advanced Queries

- 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