



COMPLETE COMPUTING, INC.

Microsoft® Access® Programming with VBA

Course length: 3 day(s)

Course Description

When you're beyond the basics of designing your Access, this course will help you maximize the features and functionality of your Access 2013 database using VBA programming.

Prerequisites

Prior to taking this course, you should either have taken the course Microsoft® Office Access® 2013: Part 3 and have several weeks of hands on practice or have equivalent knowledge. No programming experience is required.

Course Content

Lesson 1: Getting Started

- Introduction to Programming in Access
- Why Program in Access?
- Understanding the Development Environment
- Using Visual Basic Help

Lesson 2: Working with Procedures and Functions

- Understanding Modules
- Creating a Standard Module
- Understanding Procedures
- Creating a Sub Procedure
- Calling Procedures
- Using the Immediate Window to Call Procedures
- Creating a Function Procedure
- Naming Procedures
- Organizing Code and Procedures
- Working with the Code Editor

Lesson 3: Understanding Objects

- Understanding Classes and Objects
- Navigating the Access Object Hierarchy
- Understanding Collections
- Using the Object Browser
- Working with the Application Object
- Understanding the Form Object
- Working with Properties
- Using the With Statement
- Working with Methods
- Understanding the DoCmd Object
- Working with Events
- Understanding the Order of Events



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Lesson 4: Using Expressions, Variables, and Intrinsic Functions

- Understanding Expressions and Statements
- Declaring Variables
- Understanding Data Types
- Working with Variable Scope
- Working with Variable Lifetime
- Considering Variable Scope and Lifetime Together
- Using Intrinsic Functions
- Understanding Constants
- Using Intrinsic Constants
- Using Message Boxes
- Using Input Boxes

Lesson 5: Controlling Program Execution

- Understanding Control-of-Flow Structures
- Working with Boolean Expressions
- Using the If...End If Decision Structures
- Using the Select Case...End Select Structure
- Using the For...Next Structure
- Using the For Each...Next Structure
- Using the Do...Loop Structure
- Guidelines for use of Branching Structures

Lesson 6: Working with Recordsets

- Declaring and Creating Object Variables
- Working with the DAO Recordset Object

Lesson 7: Debugging Code

- Understanding Errors
- Using Debugging Tools
- Setting Breakpoints
- Setting Break Expressions
- Using Break Mode during Run Mode
- Stepping through Code
- Determining the Value of Expressions

Lesson 8: Handling Errors

- Understanding Error Handling
- Understanding VBA's Error Trapping Options
- Trapping Errors with the On Error Statement
- Understanding the Err Object
- Writing an Error-Handling Routine
- Working with Inline Error Handling

Appendix - Working with the ADO Recordset Object