

Access 2007 Programming with VBA

Length of Course: 3 days

Prerequisites

Appropriate introductory and advanced courses plus several weeks of practice. No programming experience is required.

Getting Started

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

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

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

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

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

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
- 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

