

# **Access 2003 VBA**

Summary / Objectives

Course Content

Module 1

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

Module 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

Module 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

Module 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

## Module 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

## Module 6

- Working with Recordsets
- Declaring and Creating Object Variables
- Working with the ADODB Recordset Object
- Specifying a Recordset Cursor Type
- Locking Records for Updating
- Specifying a Recordset Cursor Location - Optional
- Using the CacheSize Property - Optional
- Understanding Recordset Cursor Properties - Optional

## Module 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

## Module 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