



Computer Consultants Corporation

Access Basic Programming (VBA for Access)

Developer Level

Length of course: 3 class days (18 hours)

Objective(s): This course introduces participants to VBA programming in Access. Students will gain an understanding of the object hierarchy, variables, arrays, constants, functions, message boxes, and input boxes. Controlling program execution and debugging code will also be covered.

Prerequisites: This course is for developers. Advanced experience using Access is assumed.

Introduction

- Introduction to Programming in Access
- Why Program in Access?
- Review of Macros

Creating Modules

- Understanding Modules
- Creating a Standard Module
- About the Development Environment
- Macros versus Procedures

Procedures

- Understanding Procedures
- The use of Visual Basic
- Creating a Function Procedure
- Creating a Sub Procedure
- Creating an Event Procedure
- Navigating Between Objects and Procedures

Object Programming

- Objects, Properties, Methods & Events
- Understanding Objects and Collections
- Understanding Properties
- Understanding Methods
- Understanding Events

The Access Object Hierarchy

- Understanding Access Objects
- Controlling the Application Object
- The Forms Collection & Form Objects
- Controls Collection & Control Object
- Reports Collection & Report Object
- Understanding the DoCmd Object
- Using the Screen Object

Using Variables, Arrays, and Constants

- Declaring Variables
- Declaring Arrays
- Declaring Constants
- Declaring Object Variables
- Passing arguments through argument lists

Functions and Boxes

- Using Intrinsic Functions
- Using Message Boxes
- Using Input Boxes

Controlling Program Execution

- Using Control Structures
- The If . . . Then . . . Else . . . End If Structure
- The Select Case . . . End Select Structure
- The Do . . . Loop Structure
- The For . . . Next Structure

Debugging Code

- Understanding Error Types
- Compiling a Module
- Using Debugging Tools
- Setting and Removing a Breakpoint
- Stepping Through Code
- Using the Debug Window

Handling Errors

- Understanding Error Handling and Events
- Understanding the Err Object
- Creating an Error Handler

Adding Security to an Application

- Security overview
- Setting user-level security
- Using database passwords
- Distributing the secured application