

Microsoft Access Programming with VBA

Duration: 3 Day of Training

Course Description

In "Access Programming Using VBA" you will learn how to extend the functionality of Access using a programming language called Visual Basic for Applications (VBA). With VBA you can create code which will allow you to automate the functionality of your database. You will learn how to use the individual elements of this powerful programming language in order to design, develop and run VBA code.

Target Students

The target students for this course are those individuals who regularly use Access and wish to extend its capabilities through programming

Prerequisites

To ensure your success, knowledge of basic and intermediate features of Access is recommended plus several weeks of practice. No programming experience is required. The following courses or equivalent knowledge is also recommended:

- Microsoft Access Introduction
- Microsoft Access Intermediate

Delivery Method

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

Course Objectives

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

- Understand the VBA development environment
- Create modules, sub procedures, and function procedures
- Work with objects, properties, methods, and events
- Learn about the Access object hierarchy
- Understand variables and constants
- Work with expressions and statements
- Use intrinsic functions
- Work with control-of-flow structures
- Work with the Recordset object
- Understand errors and debug code
- Trap and handle errors in code

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

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...To...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

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