

Visual Basic for Access

Suitable for versions 2007, 2010, 2013 and 2016

One Day Course

Course Aims

This course will introduce you to VBA and offer insight into the creative ways it can be used to automate and add functionality to existing or new databases.

Assumed Knowledge

For many people this is their first experience of programming, so there are no prerequisites in that direction. However, a good working knowledge of creating databases and using macros in Access is essential.

Course Outline

Programming in the VBA Language

- Coding in Visual Basic for Applications
- Commenting Code
- Line Continuation Character
- Using Variables and Expressions
- Naming Conventions
- Defining Variables and Assigning Values
- Automatic or Explicit Declarations
- The Variant Data Type; Other Data Types
- Branching and Looping commands
- Indenting Code; Branching
- If... Then; Select Case
- Looping; For...Next
- Do...Loop; For Each....Next
- Using Arrays and Collections
- Typing in Code
- Optional and Named Arguments
- Passing Arrays as Arguments
- Code Compilation
- Conditional Compilation Directives
- Finding Bugs; Types of Error
- Debugging Code; Stepping Options
- Watch Points and conditional Breakpoints
- AutoData – A Debugging Feature

Error Handling in VBA

- Using VBA to Handle Errors Generally
- Trapping Errors; Writing Useful Error Handlers
- Other Error Messages; Logging Errors

Manipulating Data; Data Access Objects & SQL

- Data Access Objects; DAO Hierarchy
- Working with Objects and Collections
- Opening Databases Programmatically
- Database and Recordset Objects
- Dynasets; Snapshots
- Manipulating Data with VBA Methods
- Finding Records and Editing Data in a Recordset
- Transaction processing Commands
- Using Recordsets to Manipulate Imported Data
- Creating, Using and Deleting Queries from VBA
- Changing Database Definitions through VBA
- Using SQL to Manipulate Databases
- SQL Data Modification Statements
- Methods of Running SQL from VBA Code

Class Modules and Form-Event Procedures

- Creating a Class Module
- Using Class Properties and Methods
- Using Form Events; Form Events and Properties
- Code Behind Forms; Changing Form Properties
- Solutions: Soft Validation
- Creating Validation Event Procedures
- Changing the Message at Run-Time
- Moving to a Specific Form control
- Solutions: Value Derivation
- Creating New Form Instances
- Solutions: Tying Forms/Reports Together
- Using Form Class Modules

Related courses: SQL Server - Programming and Development

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