

Microsoft Access – VBA & Developer

This intensive 2-day course is designed to introduce new Access programmers to the Visual Basic for Applications programming language and help them create robust and powerful database applications by taking a structured look at Access VBA. It will help new database developers plan their applications systematically and promote good design and development techniques. Participants should have at least an intermediate knowledge of building Access databases.

Introducing Access VBA

- Converting Macros to VBA
- The VBA programming environment
- The Visual Basic Editor
- Event driven programming
- Regular and Class modules
- Building Procedures
- Building Custom Functions

VBA Programming Basics

- Good practice in VBA coding
- Using Variables
- Array Variables
- Writing conditional code
- Code loops
- Compiling and debugging code
- Dealing with errors

Error Handling in VBA

- Ignoring Errors
- Trapping Errors
- Writing Error Handlers
- Logging Errors

Working with Forms

- Form properties and events
- Control properties and events
- Working with Event Procedures
- Using VBA to validate data
- Automating form navigation
- Building tools for finding records
- Working with command buttons
- Working with combo boxes
- Working with list boxes
- Working with option groups
- Creating dialog boxes
- Creating switchboards
- Building a splash screen
- Manipulating a form's Recordset

Working with Reports

- Opening reports programmatically
- Manipulating reports with VBA
- Creating dynamic reports

Manipulating Data with ADO and SQL

- ActiveX Data Objects (ADO)
- Connecting to data sources
- Database and Recordset Objects
- Manipulating Data with VBA
- Finding Records in a Recordset
- Editing Data in a Recordset
- Transaction Processing
- Using Recordsets to import data
- Manipulating Queries from VBA
- Changing Database Definitions through VBA
- Using SQL to Manipulate Databases
- SQL Data Modification Statements
- Methods of Running SQL from VBA Code
- Data Access Objects (DAO)

Working with Other Programs

- About VBA Automation
- Exporting data programmatically
- Writing data to other programs
- Retrieving data from other programs