

# VBA300 : VBA Access Programming

**Code :** VBA300

**Duration :** 2 days

**Category :**

Scripting

## Audience :

This course is intended for anyone who wants to learn how to use VBA, Visual Basic for Applications, and the DAO object model in Access to add functionality to forms, reports and databases.

## Prerequisites :

Knowledge of and experience with Access is required to participate in this course. Programming experience is beneficial to a proper understanding.

## Realization :

The theory is discussed on the basis of presentation slides. Illustrative demos provide further clarification of the concepts. The theory is interspersed with practical exercises.



## VBA Access Programming



## Contents :

The course VBA Access discusses how VBA, Visual Basic for Applications, can be used to program in Access and how the DAO object model can be used to access Access databases. In particular attention will be paid to those parts of VBA that are important for controlling Access. Participants will learn how to use VBA to retrieve information from an Access database and how the data can be filtered and sorted. Moreover, is discussed how forms and reports can get more functionality with VBA. Also the so called DAO, Data Access Object, object model is addressed and the properties and functions of DAO that can provide access to all kind of databases. DAO is also applicable external to Access. Finally it is discussed how databases can be accessed with the DAO object model from Word and Excel.

### Module 1 : VBA Intro

- Visual Basic Editor
- Programming in VBA
- Entering code
- VBA Code
- Statements
- Comments
- Execution step by step
- Breakpoints
- Debugging

### Module 2 : VBA Syntax

- Variables
- Constants
- Operators
- Parameters
- Arguments
- Procedures
- Functions
- Modules
- Objects

### Module 3 : Control flow

- Selections
- If Statements
- Else Statements
- If Then Else
- Select case
- Iterations
- For Next
- Do Loop
- Arrays in VBA
- Multidimensional arrays
- Dynamic array declarations

### Module 4 : Events

- What are Events
- Type of events
- Reactions on events
- Event handling
- Event functions
- Domain functions
- MsgBox in VBA

### Module 5 : Forms

- Forms
- Connecting to data
- Lookup information
- Using autolookup queries
- Forms synchronizing
- Control elements and fields
- Using calculated query fields
- Access commands
- DoCmd in Access

### Module 6 : DAO

- What is DAO?
- Data Access Objects
- Workgroups
- Record sets
- Word Database Access
- Excel Database Access