

# Microsoft Access Training: Macros, Code & Automation (ACCPRO, 4 jours)

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## Description

The course Macros, Code & Automation (Microsoft Access Training) builds upon the course Tables, Queries & More by showing you how to data access forms and associates data access code with MS Access. Participants learn how to build forms, develop macros and write supporting code. You will learn how to build data drive applications using MS Access. The 50:50 theory to practice ratio help you learn how to build real applications using MS Access

## Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

## Plan de cours

### About Microsoft Access

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Overview of Application Elements: Tables, Queries, Reports and Macros  
Deigning a Microsoft Access Software Solution  
About the Separation of Data and Presentation Elements  
Creating the Startup Macro  
Setting Environment Options  
Reading Configuration Values Programmatically  
A Note on Application Look and Feel  
Exercise: Designing a Microsoft Access Database Solution  
Exercise: Creating a Shell for a Microsoft Access Solution

### Implementing Integrity

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About Integrity Types: Domain, Entity and Referential  
Review of Normal Forms: From 1st to Boyce-Codd  
Handling NULL Values and Empty Values  
Implementing Domain Integrity: Default Values, Ranges and Enumerations  
Implementing Entity Integrity: Primary Keys  
Implementing Referential Integrity: Creating Foreign Keys  
Overview of Indexing Guidelines: Performance Guidelines  
Creating Indexes in Support of Specific Requirements  
Exercise: Designing and Implementing Database Integrity  
Exercise: Designing and Implementing Database Indexing

### Application Programming: The Basics

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About Variable Declaration  
Understanding Data Types, Variants and their Use  
Requiring Variable Declaration  
Working with Conditional Statements  
Working with Repeating Statements: For Each and Do  
Understanding the Difference between a Function and a Procedure  
Creating Functions and Procedures  
Working with Function and Procedure Parameters: ByRef and ByVal  
Exercise: Writing Code Modules in Support of Application Requirements

### Working with Macros

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Macro Basics

- About the Macro Editor
- Creating Basic Macros
- Passing Values to Macros
- Manipulating Forms in Macros
- Working with Data in Macros
- Creating Automation Macros
- Exercise: Creating Custom Macros

Form Integration -----

- About Microsoft Access Presentation Elements
- The Difference between using a Macro and using Code
- Calling a Macro from a Form or Report
- Common Scenarios: Calling Macros from a Form or Report
- Calling Custom Code from a Form or Report
- Common Scenarios: Calling Custom Code from a Form or Report
- Exercise: Implementing Custom Data Validation
- Exercise: Implementing Custom Form Navigation

Working with Class Modules -----

- The Difference between a Class Module and a Module
- The Need for Objects
- Creating a Class Module
- Creating Properties
- Creating Methods
- About Object Initialization and Termination
- Using Objects to Implement Custom Behaviours
- Using Objects in Form or Report Development
- Exercise: Creating Custom Classes for Middle Tier Operations

Coding Professionals Forms -----

- Adding Code to Forms
- Implementing Custom Form Behaviours
- Creating Master – Detail Forms
- Loading Default Forms
- Controlling the User Experience through Code
- Exercise: Creating a Complete User Interface with Microsoft Access

Packaging the Application -----

- Separating Presentation and Data
- About Packaging the Database Engine
- About the Implementation of Configuration Values
- Using External DLLs and Packages: Native and .NET
- Creating Shortcuts and Support Files
- Dealing with Application Pre-Requisites
- Creating the MSI File
- Testing the Installation
- Exercise: Creating an MSI Installation Package