

Excel - Designing VBA applications in Excel

Duration: 3 days

Audience: Pour tous

Who is this training for?

For everyone

Training objectives

- Understand the parameters of programming in VBA for Excel.
- Create projects with functions, procedures.
- Create programming modules with a user interface.
- Automate spreadsheet entry.

Summary

Move from Excel as a simple analysis tool to a true application platform with the power of VBA (Visual Basic for Applications). This training allows you to design robust, automated Excel applications adapted to business needs. Develop tailor-made solutions to automate repetitive tasks, secure data, improve the user experience and significantly increase operational efficiency. Understand the parameters of programming in VBA for Excel, create projects with functions and procedures, develop programming modules with user interface, and automate spreadsheet entry.

Course outline

Recording Macros

- Starting Recording
- Understanding the Structure of Macros
- Storing Macros • Knowing Movement Methods
- Using Relative and Absolute References

Introduction to Programming

- Using Visual Basic Help
-

Writing Procedures

- Working with Variables
- Controlling the Flow of the Program
- Calling Procedures

Responding to User Actions

- Adding Event Procedures
- Working with Events
- Working with Objects, Properties, and Methods
- Working with the Active Element

Data Validation

- Workshop
- Validating Data Without the Help of Code
- Validating Data Using Code

Using Debugging Tools Workshop

- Testing the Project
- Stepping Execution
- Using Breakpoints
- Using the Execution Window

Handling Runtime Errors

- Types of Errors
- Adding Error Handlers

Making Loops in Code Workshop

- Loops For
- Using Do Loops

Approach and methodology

- Lectures
- Demonstrations
- Guided and individual exercises

Prerequisites

Advanced Excel or equivalent content

Recommendations

- Have a basic command of the Windows environment (file management, folders, copy and paste)
- Understand the simple notions of calculation (addition, percentage, average)
- Be comfortable with reading and structuring data (simple tables)
- Know the basics of logic (organize information, follow a sequence of actions)