

Advanced Modeling with Excel and Visual Basic for Applications

2026 16 - 12
Amsterdam (Netherlands)

UK Traininig

PARTNER



Advanced Modeling with Excel and Visual Basic for Applications

~~R20220117~~ ~~18162412~~ **Location:** Amsterdam (Netherlands) **Fees:** 5900 GBP

Why This Course

Excel remains one of the most powerful tools for financial modeling and business analysis. However, many professionals rely only on standard spreadsheet features, limiting their ability to handle complex calculations, automate repetitive tasks, and build scalable analytical tools. By combining advanced Excel techniques with Visual Basic for Applications VBA, users can transform spreadsheets into powerful, automated applications that significantly improve productivity and analytical capability.

This intensive 5-day program is designed to help professionals advance their Excel expertise by integrating sophisticated modeling techniques with VBA programming. Participants will learn how to build advanced financial models, create automated reporting systems, and develop custom Excel tools that support complex data analysis. Through practical exercises and hands-on development, the course equips participants with the skills needed to design efficient, flexible, and professional spreadsheet solutions.

What You'll Learn and Practice

By participating in this program, you will:

- Apply advanced Excel formulas and modeling techniques for complex financial analysis.
- Develop VBA programming skills to automate repetitive spreadsheet tasks.
- Create custom functions and user interfaces to enhance spreadsheet functionality.
- Build dynamic dashboards and automated reporting tools.
- Improve spreadsheet efficiency through structured model design and automation.
- Implement best practices for testing, documentation, and long-term model maintenance.

The Program Flow

Day 1: Advanced Excel Modeling Techniques

- Applying complex financial functions for advanced modeling.
- Using data tables and scenario analysis tools.
- Implementing advanced conditional formatting and data validation.
- Working with array formulas and dynamic named ranges.

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Day 2: Introduction to VBA and Macro Recording

- Understanding VBA fundamentals and the Excel object model.
- Recording, editing, and optimizing macros.
- Using variables, data types, and programming structures.
- Debugging VBA code and implementing error handling techniques.

Day 3: Custom Functions and Procedures

- Creating user-defined functions UDFs to extend Excel functionality.
- Developing procedures and subroutines for automated calculations.
- Applying loops and decision-making structures in VBA.
- Working with arrays and collections in programming tasks.

Day 4: Advanced VBA and User Interface Design

- Designing custom user forms and input controls.
- Implementing event-driven programming within Excel applications.
- Integrating Excel with other Office applications using VBA.
- Applying advanced error handling and input validation techniques.

Day 5: Building Automated Models and Reports

- Designing automated financial reporting systems.
- Generating charts and PivotTables dynamically with VBA.
- Creating interactive dashboards for data analysis and reporting.
- Applying best practices for documenting and maintaining automated models.

Individual Impact

- Strengthen advanced Excel and programming capabilities.
- Improve efficiency by automating complex analytical tasks.
- Develop practical skills in building professional financial models.
- Gain confidence in designing customized spreadsheet solutions.

Work Impact

- Increase productivity by reducing manual data processing and reporting tasks.
- Improve the accuracy and reliability of financial and analytical models.
- Enable organizations to build customized tools for data analysis and reporting.
- Enhance decision-making through dynamic dashboards and automated reports.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn behind it. The board is checkered, and there are concentric circles in the background.

Training Methodology

This program emphasizes hands-on learning to ensure participants gain practical experience in Excel modeling and VBA automation. Training methods include:

- Interactive demonstrations and coding workshops.
- Step-by-step exercises in Excel and VBA development.
- Real-world case studies in financial modeling and automation.
- Practical projects focused on automated reporting and dashboards.
- Templates and programming frameworks for advanced spreadsheet applications.

Beyond the Course

By the end of the program, participants will be able to:

- Build advanced financial models using Excel and VBA.
- Automate complex calculations and reporting processes.
- Develop custom Excel tools and user interfaces.
- Design dynamic dashboards and automated analytical systems for business decision-making.

A graphic of a chessboard with several chess pieces (a king, a queen, and a pawn) on it, set against a background of concentric circles.

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