Programming and Data Wrangling with VBA and Excel

Category: AI, Data & Analytics | **Vendor:** Microsoft Apps

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

VBA (Visual Basic for Applications) enables you to enhance and extend the capabilities of Microsoft® Excel® and other applications in the Microsoft® Office application suite. You can use VBA to perform tasks that would be difficult or impossible to do using only worksheet functions, and you can automate a wide range of tasks involving the collection, processing, analysis, and visualization of data. This course will give you a good foundation for understanding, creating, and using VBA in your own Excel workbooks, show you how to work with data across different applications, and how to package the macros and functions you create so you can back them up, move them to other computers, and share them with other users

About This Course

VBA (Visual Basic for Applications) enables you to enhance and extend the capabilities of Microsoft® Excel® and other applications in the Microsoft® Office application suite. You can use VBA to perform tasks that would be difficult or impossible to do using only worksheet functions, and you can automate a wide range of tasks involving the collection, processing, analysis, and visualization of data. This course will give you a good foundation for understanding, creating, and using VBA in your own Excel workbooks, show you how to work with data across different applications, and how to package the macros and functions you create so you can back them up, move them to other computers, and share them with other users

Who Should Attend

This course is primarily designed for students who want to gain the skills necessary to use VBA to automate tasks in Excel such as collecting data from external sources, cleaning, and manipulating data. The target student may also want to learn how to create custom worksheet functions to streamline worksheet formulas and make complex worksheets easier to support, maintain, and understand.

Prerequisites & Entry Requirements

General Prerequisites:

To ensure your success in this course, you should be an experienced Excel user who is comfortable creating and working with Excel workbooks, including tasks such as entering worksheet formulas, using absolute and relative addressing, formatting cells, and creating pivot tables and charts. This level of skill could be acquired by taking the Microsoft Excel for Office 365™ (Desktop or Online) courses, Parts 1, 2, and 3

Learning Outcomes

Upon successful completion of this course, participants will be able to:

In this course, you will develop and deploy VBA modules to solve business problems. You will: Identify general components of VBA and their appropriate use in solving business solutions. Record VBA macros to automate repetitive tasks. Use reference tools built into Excel to get help on VBA programming language and objects used in the Excel VBA environment. Write VBA code to create a custom worksheet function. Eliminate, avoid, or handle errors in VBA code, and optimize its performance. Control how and when macros run. Develop UserForm objects to create custom dialog boxes and windows. Use VBA to read and write data from local files and cloud services. Use VBA to clean and transform data. Run programs and commands outside of Excel and share VBA projects with other users

Detailed Course Outline

1 - Using VBA to Solve Business Problems

- Topic A: Use Macros to Automate Tasks in Excel
- Topic B: Identify Components of Macro-Enabled Workbooks
- Topic C: Configure the Excel VBA Environment

2 - Automating Repetitive Tasks

- Topic A: Use the Macro Recorder to Create a VBA Macro
- Topic B: Record a Macro with Relative Addressing
- Topic C: Delete Macros and Modules
- Topic D: Identify Strategies for Using the Macro Recorder

3 - Getting Help on VBA

- Topic A: Use VBA Help
- Topic B: Use the Object Browser to Discover Objects You Can Use in VBA
- Topic C: Use the Immediate Window to Explore Object Properties and Methods

4 - Creating Custom Worksheet Functions

- Topic A: Create a Custom Function
- Topic B: Make Decisions in Code
- Topic C: Work with Variables
- Topic D: Perform Repetitive Tasks

5 - Improving Your VBA Code

- Topic A: Debug VBA Errors
- Topic B: Deal with Errors
- Topic C: Improve Macro Performance

6 - Controlling How and When Macros Run

- Topic A: Prompt the User for Information
- Topic B: Configure Macros to Run Automatically

7 - Developing Custom Forms

- Topic A: Display a Custom Dialog Box
- Topic B: Program Form Events

8 - Using VBA to Work with Files

- Topic A: Use VBA to Get File and Directory Structure
- Topic B: Use VBA to Read Text Files
- Topic C: Use VBA to Write Text Files

9 - Using VBA to Clean and Transform Data

- Topic A: Automate Power Query
- Topic B: Transform Data Using VBA and Workbook Functions
- Topic C: Use Regular Expressions
- Topic D: Manage Errors in Data

10 - Extending the Programming Environment Beyond the Workbook

- Topic A: Run Other Programs and Commands
- Topic B: Share Your VBA Projects

Frequently Asked Questions

Q: What delivery options are available for Programming and Data Wrangling with VBA and Excel?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Programming and Data Wrangling with VBA and Excel course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Programming and Data Wrangling with VBA and Excel training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Programming and Data Wrangling with VBA and Excel?

Yes, we provide corporate training, dedicated training, and closed classes for Programming and Data Wrangling with VBA and Excel. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Programming and Data Wrangling with VBA and Excel?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Programming and Data Wrangling with VBA and Excel training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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