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Excel Advanced Techniques

Elevate Your Data Mastery in Just One Day

FA-0199 · One Day

Data & Analytics · Automation, RPA & Power Platform

Introduction

Welcome to the MS Excel Advanced Techniques course! As businesses continue to rely heavily on data analysis and management, advanced Excel skills have become crucial for professionals aiming to enhance their productivity and decision-making capabilities.

This one-day course is designed to build on your existing Excel knowledge, introducing you to advanced functionalities that will streamline complex tasks and unlock powerful data analysis tools.

Our instructor, with over 30 years of industry experience, will guide you through practical exercises and real-world applications, ensuring that you leave with skills that are directly applicable to your professional needs.

Learning outcomes

By the end of this course, participants will be able to:

- Utilize advanced formula and function techniques for sophisticated data analysis.
- Create and manipulate PivotTables and PivotCharts for dynamic data reporting.
- Implement advanced data validation and conditional formatting rules.
- Perform complex data analysis using Excel's built-in tools.
- Automate repetitive tasks using macros.
- Integrate Excel with other applications for enhanced functionality.

Prerequisites

- Basic to intermediate proficiency in MS Excel.
- Understanding of basic formulas and functions.

- Familiarity with data organization and basic charting techniques.

Training outline

1. Advanced Formulas and Functions

Array formulas

- Introduction to array functions
- Examples and practical applications

Logical functions

- IF, AND, OR, and nested IF statements

Lookup and reference functions

- VLOOKUP, HLOOKUP, and XLOOKUP
- INDEX and MATCH functions for flexible lookups

Text functions

- CONCATENATE, TEXT, LEFT, RIGHT, MID
- Using TEXT functions for data cleaning and preparation

Date and time functions

- TODAY, NOW, DATE, and TIME
- Calculating differences between dates

2. PivotTables and PivotCharts

Creating and formatting PivotTables

- Setting up a PivotTable from a data range
- Customizing fields and layout

Advanced PivotTable techniques

- Grouping data (by dates, numbers, and text)
- Calculated fields and items
- Using slicers for interactive filtering

Creating and customizing PivotCharts

- Linking PivotTables to PivotCharts
- Formatting and analyzing data visually

3. Advanced Data Validation and Conditional Formatting

Creating complex data validation rules

- Custom validation criteria
- Using formulas for dynamic validation lists

Advanced conditional formatting techniques

- Creating custom rules with formulas
- Using conditional formatting for data visualization

4. Data Analysis Tools

Using the Data Analysis Toolpak

- Descriptive statistics
- Regression analysis
- Histogram creation

Goal Seek and Solver

- Setting and achieving specific targets
- Optimizing results based on constraints

5. Introduction to Macros and Automation

Recording and running macros

- Understanding the basics of VBA (Visual Basic for Applications)
- Recording a simple macro
- Editing macro code

Automating repetitive tasks

- Creating buttons and shortcuts for macros
- Best practices for macro security and management

6. Integrating Excel with Other Applications

Importing and exporting data

- Importing data from external sources (CSV, databases)
- Exporting data for use in other applications

Linking and embedding Excel data in Word and PowerPoint

- Creating dynamic reports and presentations

Using Excel with Power Query

- Connecting to various data sources
- Cleaning and transforming data

7. Practical Exercises and Real-World Applications

Hands-on exercises to reinforce learning

- Creating a dynamic sales dashboard with PivotTables and PivotCharts
- Automating data entry with macros
- Using advanced formulas for complex financial modeling

Real-world scenarios and problem-solving

- Applying advanced techniques to industry-relevant tasks

8. Conclusion and Q&A

- Recap of key concepts covered
- Open floor for questions and clarifications
- Additional resources for further learning

By the end of this advanced techniques course, you will be equipped with powerful tools and techniques to handle complex data tasks efficiently, making you an invaluable asset to your organization. Join us to take your Excel skills to the next level and become a data-savvy professional.

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