Excel Basic

What do I need?

Learners should be able to read and write in English. ABET or equivalent knowledge is essential for attending this course. They should be familiar with using a mouse and keyboard. They should be comfortable in the Windows environment and be able to use Windows to manage information. Learners should have completed Computer Literacy or possess equivalent knowledge prior to attending this course.

How long is the course?

2 Days

Who should attend?

The course is designed for learners who have no previous experience in Excel. This thorough and slow paced course will provide the learner with the basic foundational skills required to work in Excel.

Getting started with Excel

What are spreadsheets?
Start Excel
Understand the screen layout
Create a new spreadsheet
Save a file
Understand and use save as
Open and close an existing file
Move around the worksheet effectively
Select cell ranges, columns and rows
Enter data into cells
Use Excel's help options
Exit Excel

Modify worksheet data

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Move and copy data
Insert and delete columns and rows

Formatting a worksheet

Align cell data
Change font size and type
Add borders and colours to cells
Adjust column width and row height

Basic calculations

Use Autosum to total lists of values Create basic arithmetic formulas

Printing workbook contents

Adjust page setup options
Print preview and print a spreadsheet

Graphically display data

Create a chart Modify and print a chart



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Excel Intermediate

What do I need?

Learners should be familiar with using a mouse and keyboard. They should be comfortable in the Windows environment and be able to use Windows to manage information. Specifically learners should be able to launch and close applications; navigate to information stored on the computer; and manage files and folders. Learners should have some knowledge of Excel or spreadsheets.

How long is the course?

2 Days

Who should attend?

This course is designed for people who need to gain the necessary skills to create, edit, format, and print Excel worksheets to an Intermediate skill level.

Getting started with Excel

Start Excel
Understand the screen layout
Create a new spreadsheet
Save a file
Understand and use save as
Open and close an existing file
Move around the worksheet effectively
Select cell ranges columns and rows
Enter data into cells
Use find & replace
Use Excel's help options
Exit Excel

Modify worksheet data

Use autofill effectively Move and copy data Insert and delete columns and rows

Formatting a worksheet

Align cell data
Change font size and type
Add borders and colours to cells
Adjust column width and row height
Format cells to enhance a spreadsheet
Apply cell styles

Basic calculations

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Use autosum to total lists of values Create basic arithmetic formulas

Printing workbook contents

Adjust page setup options Add headers and footers Print preview and print a spreadsheet Set and clear print areas

Modifying a workbook

Insert and rename sheets Move and delete sheets Use templates

Enhancing basic formulas

Use logical operators in formulas
Absolute & relative references
Insert functions into formulas
Display formulas on screen and edit formulas
Use manual calculation

Managing workbooks

Hide and unhide columns and rows
Insert, remove and adjust page breaks
Repeat heading rows at top of each page
Freeze and unfreeze panes
Use windows and tiles
Create named ranges
Use range names in formulas
Use the compatibility checker

Graphically display data

Insert & modify SmartArt graphics Insert autoshapes, clipart & pictures Modify autoshapes, clipart & pictures Create a chart Modify and print a chart

Customise the environment

Customise the Quick Access Toolbar Customise the Status Bar Excel options



Excel Bridging Workshop

What do I need?

Learners should have a working knowledge of Excel or spreadsheets. Learners should be familiar with using a mouse and keyboard. They should be comfortable in the Windows environment and be able to use Windows to manage information. Specifically learners should be able to launch and close applications; navigate to information stored on the computer; and manage files and folders.

How long is the course?

1 Day

Who should attend?

This workshop is designed for people who are currently working in Excel that need to fill knowledge gaps in Excel to an Intermediate skill level, prior to attending an advanced course. It is also suited to learners who are transitioning from earlier versions of Excel.

Elements of the Excel environment

Identifying the user interface elements
Identify the ribbon components
Use contextual tabs
Use Excel galleries
Customise the Excel interface

Modify worksheet data

Use autofill effectively move and copy data Insert and delete columns and rows

Formatting a worksheet

Format cells to enhance a spreadsheet

Basic calculations

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Use Autosum to total lists of values Basic arithmetic formulas

Printing workbook contents

Adjust page setup options Add headers and footers Print preview and print a spreadsheet

Modifying a workbook

Insert and rename sheets
Move and delete sheets

Enhancing basic formulas

Use logical operators in formulas
Use absolute cell references in formulas
Insert functions into formulas
Display formulas on screen and edit
formulas

Managing workbooks

Hide and unhide columns and rows Insert, remove and adjust page breaks Repeat heading rows at top of each page Freeze and unfreeze panes Use windows and tiles Create and use named ranges

Graphically display data

Create a chart Modify and print a chart



Excel Advanced Level 1: Data Management

What do I need?

Learners should already have knowledge of Excel, including how to create, edit, format and print worksheets to an Intermediate level.

How long is the course?

2 Days

Who should attend?

This course targets individuals who need the skills necessary to sort and filter data, create PivotTables and PivotCharts, incorporate multiple data sources, import and export data, analyse data, and work with Excel database functions.

Databases - what they are and how they work

Create databases and lists
Use data form
Sort data in a list
Filter data in a list
Use comparison criteria for filters
Work with a filtered list

Use data management tools

Summarise data in a list using subtotals Use nested subtotals Group and outline data in lists Data consolidation Excel tables Name manager

Data validation

Apply data validation Circle invalid data Remove validation circles

Manage workbooks and worksheets

Work with sheets Group and ungroup sheets Create & use custom views

Import and export data

Import external data
Adjust connection properties

Add-in programs

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View installed add-ins Manage add-ins

What if analysis

Goal seek Solver Scenario manager

PivotTables

Create a PivotTable
Consolidate data from multiple ranges
Customise a PivotTable
Create a formula in a PivotTable
PivotCharts

Use text functions and tools

Search, Left, Mid and Right functions Upper, Lower and Proper functions Trim and Len functions Convert text to columns

Use lookup functions

Vlookup Hlookup Lookup

Use database functions

Daverage Dcount Dcounta Dmax Dmin



Excel Advanced Level 2: Complex Formulas

What do I need?

Learners should already have knowledge of Excel, including how to create, edit, format and print worksheets to an Intermediate level.

How long is the course?

2 Days

Who should attend?

This course is for individuals who need the skills necessary to enhance spreadsheet functionality. Attendees will learn how to create advanced formulas, macros, templates, charts and how to secure worksheets and workbooks.

Modifying workbooks and worksheets

Compare side by side Save workbooks as a workspace Create a template

Advanced formatting techniques

Custom number formatting Conditional formatting

Annotate with cell comments

Insert a comment Show/hide comments Print comments

Paste special

Transpose rows and columns
Paste link

Creating advanced formulas

Relative, absolute and mixed references
3-d formulas
Logical functions
Math & trig functions
Statistical functions
Date and time functions
Financial functions
Engineering functions
Nesting functions
Information functions
Array formulas
Handle errors in formulas

Formula auditing

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Trace precedent cells Trace dependent cells

Named ranges

Use the name manager Define names for cells and cell ranges

Add-in programs included with Excel

Load an add-in program Uninstall an add-in program

Track changes

Activate track changes Review tracked changes View change history Deactivate track changes

Create and manipulate charts

Change the way data is plotted Add a trendline to a data series Create a chart template Add sparklines to a worksheet

Protect worksheets and workbooks

Find and remove hidden data Password protect a workbook Protect worksheet elements Remove protection

Control elements of the Excel interface

Adjust Excel options Customise the Quick Access Toolbar Customise the Ribbon

Macros

Record and run macros Edit a macro Delete a macro



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Excel Master Class

What do I need?

The learner would have completed an Excel Intermediate and Advanced course or at least worked daily in the application for at least 3 years.

How long is the course?

3 Days

Overview

A three-day intense course focusing on a three Phase Method: INPUT, PROCESSING, OUTPUT. This course takes a learner from INPUT (Importing of data correctly) PROCESSING (Evaluating and Analysing Data) OUTPUT (Reporting of Analysed Data). The course allows for interactive spreadsheets and to master advanced analysis techniques such as Charting and Pivoting. You will be introduced to new features of Excel and reporting in PowerPoint.

Foundational understanding

Navigating the interface
Setting up and entering data correctly into
Excel
Formatting and custom format data
Creating custom lists
Fixing errors in spreadsheets using flash fill
(2013/2016)

Importing and exporting data

Import and export data into Excel from different file formats Remove duplicates Text to columns

Formula and functions

Basic formulas and functions
Absolute versus relative cell referencing
Creating and using name ranges
3D formulas to link spreadsheets
Text functions
Date and time functions
Logical functions
Lookup and reference functions
Nested functions

Conditional formatting

Highlight cell rules
Top/bottom rules
Data bars
Color scales icon sets
Using a formula to apply formats
Manage rules

Understanding excel tables

Setup and format of table range Apply table styles and options Using Autofilter custom views Adding new data in table Creating formulas Working with a total row Utilising freeze panes

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Charts

Creating a chart
Adding chart elements, applying styles and
colour schemes
Working with different chart types
Secondary axis charting
Charts and sparklines

Applying advanced functionality

Data validation
Creating macros
Working with form controls – working with
functions and assigning macros
Allow users to edit ranges
Protect worksheets and workbooks

PivotTable and PivotCharts

Creating PivotTables Number formatting techniques Designing report layout Filtering labels and values Summarise data - SUM, AVERAGE, MINIMUM, MAXIMUM, COUNT Inserting formulas Date analysis Copying PivotTables Creating PivotCharts Showing report filter pages Linking PivotTables and PivotCharts in PowerPoint Conditional formatting with PivotTables Creating and formatting PivotCharts Adding chart elements Moving and sizing PivotCharts

Reporting and dashboards

Building a dashboard Building chart based & table dashboards linking tables & charts in PowerPoint



Excel Dashboard Reporting

What do I need?

Learners should have successfully completed Excel training to an advanced level or have working knowledge of the advanced features of Excel.

How long is the course?

1 Day

Who should attend?

This course will enable you to create quality Dashboard reports in Excel. Dashboard reports present business information as a clear, concise picture that is easy to read, understand and update. A variety of results can be condensed into a single page for comparison purposes, simplifying and reducing the time taken to report on organisational performance.

You will learn to:

Display data from any number of sources, of any kind, using virtually any design...all in one report.

Create mini-charts for dashboard reporting.

Generate figures that use both charts and worksheets.

Use Excel's Camera tool.

Funnel data into Dashboard reports.

Use spreadsheet databases for Dashboard reporting.

You will also discover:

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How formulas in any number of high-quality Excel reports can link to generalpurpose Excel databases, or to Excel-friendly OLAP databases.

How, by using the proper techniques, Excel users can update their reports in seconds...rather than minutes, or hours....

How to create publication-quality Excel reports.

How to change the reports quickly, to respond to changing information needs.



Excel PivotTable and Dashboard Reporting

What do I need?

Learners should have successfully completed Excel courses to an intermediate level or possess the equivalent knowledge. Learners should be able to create, edit, format and print worksheets. They should also have the ability to create mathematical formulas and formulas using basic functions (SUM, AVERAGE, COUNT, MAX, MIN). It is important that the learner is working on Microsoft Office 2013 or higher.

How long is the course?

2 Days

Who should attend?

This course is aimed at learners who need to analyse information utilising PivotTables as the foundation for Dashboard reports. Dashboard reports present business information as a clear, concise picture that is easy to read, understand, and update. A variety of results can be condensed into a single page for comparison purposes, simplifying and reducing the time taken to report on organisational performance.

Preparation of Source Data

Databases - What they are and how they work Entering information correctly into Excel Setting up a database table in Excel Custom formats Using FlashFill Using format as table Using conditional format Creating Sparklines

PivotTables

Understand the layout of a PivotTable
Create a PivotTable
Navigate the PivotTable field lists Modify
design options of a PivotTable
Using analysis tools to analyse the information in different ways
Customise a PivotTable
Create a formula in a PivotTable
Using Slicers

PivotCharts

Create PivotCharts
Format PivotCharts
Edit PivotCharts
Move and size PivotCharts
Using chart options to change the design and layout of the chart

Dashboard

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Overview of what a dashboard is Create a Dashboard with PivotTables and Charts Create a Dashboard with PivotCharts, Slicers and Timelines Using PowerView to display charts An introduction into using PowerPivots



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Excel PivotTable Workshop

What do I need?

Learners should already have knowledge of the basics of Excel, including how to create, edit, format and print basic worksheets. Learners should have successfully completed Excel courses to an intermediate level or possess the equivalent knowledge.

How long is the course?

½ Day

Who should attend?

This course targets the learner who desires to gain the skills necessary to sort and filter data, create PivotTables and PivotCharts. Learners are welcome to bring their own material, for facilitated hands-on application in the afternoon, if required.

Databases - What they are and how they work

PivotCharts

Create PivotCharts
Format PivotCharts
Edit PivotCharts
Move and Size PivotCharts

PivotTables

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Create a PivotTable
Consolidate data from multiple ranges
Customise a PivotTable
Create a formula in a PivotTable
PivotCharts



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Excel Charts

What do I need?

Learners should be familiar with using a mouse and keyboard. They should be comfortable in the Windows environment and be able to use Windows to manage information. Specifically, learners should be able to launch and close applications; navigate to information stored on the computer; and manage files and folders. Learners should have knowledge of Excel to an Intermediate level.

How long is the course?

1/2 Day

Who should attend?

This course is designed for people who need to gain the necessary skills to create, edit, format, and print charts in Excel. Learners are welcome to bring their own material, for facilitated hands-on application in the afternoon, if required.

Creating charts

From non-adjacent selections
Using one step
Changing the default chart type

Embedded chart placement

Moving and sizing embedded charts Deleting an embedded chart

Customising a chart

Ways to select chart items Chart labels, titles and other text Change the display:

Chart labels Data labels legends Gridlines

Display or hide chart items
Delete chart items
Change colours, patterns, lines, fills and borders
Use a picture in a chart
Change values in a chart
Add data to a chart

Plotting data

Plot data series from rows / columns Secondary value axis Category and value order Data series order Control the way empty cells are plotted Change the points plotted

Using dates in charts

Add a trendline to a data series

Change the view of a 3D chart

Custom chart types

Built in custom charts
Creating your own custom charts



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Formulas Workshop

What do I need?

Learners should already have knowledge of Excel, including how to create, edit, format and print worksheets to an Intermediate level...

How long is the course?

1 Day

Who should attend?

This course is for individuals who need the skills necessary to enhance spreadsheet functionality. Who want to use advanced formulas.

Worksheet formulas

Using operators in formulas
Using percentages in formulas
Absolute and relative cell referencing

Worksheet functions in formulas

Using SUM, AVERAGE, MIN, MAX and COUNT
Correcting errors in formulas

Named ranges

Create, edit and delete named ranges Create named ranges from selections

3D references

Create a 3D reference formula Name a 3D reference

Logical operators

Comparison operators IF statements AND statements OR statements

Date and time functions

TODAY function
NOW function
YEAR function
MONTH function
NETWORKDAYS function
EDATE function
EOMONTH function

Financial functions

PMT function IPMT function PPMT function PPMT function

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Text functions

SEARCH function LEFT, MID & RIGHT functions UPPER, LOWER & PROPER functions TRIM functions LEN functions

Nesting functions

Valid returns Nesting level limits Nested IF Functions

Database functions

DAVERAGE DCOUNT DCOUNTA DMAX DMIN DSUM

Lookup functions

VLOOKUP HLOOKUP LOOKUP



Visual Basic for Excel

What do I need?

To ensure success learners should have successfully completed all Excel Levels or possess the equivalent knowledge.

How long is the course?

3 Days

Who should attend?

This course targets learners who require knowledge of Excel's underlying programming language - VBA, with a view to extending the functionality of macros, as well as creating functions and automating complex tasks.

Day 1

Understand how VB talks to Excel

Understand automation Start Microsoft Excel macros Record, run and edit a macro Run a macro from Visual Basic Step through a macro

Understand the VB environment

The code window
The project explorer
The properties window
The immediate window
The object browser

Write Visual Basic statements

Make long statements easier to read Create, declare and assign variables Use syntax help in Visual Basic Exit Visual Basic transpose Skip blanks Link

Day 2

Work with Excel objects in Visual Basic

Collections, properties, methods and events
Understand and use workbooks and worksheets

Understand and define ranges Manipulate drawing objects Manipulate charts

Use values and formulas in ranges Understand and use relative and absolute

references
Enhance recorded selection
Simplify selection pairs and groups

Manipulate pivot tables

Day 3

Control Visual Basic

Use conditional statements If... then... else
Case statements

Create loops

For each loops For loops Do loops

Extend Excel and Visual Basic

Input boxes Message boxes

Work with functions

Using Excel functions in Visual Basic Create custom functions Add function arguments Explore volatile functions

Handle errors:

Ignore, check for and trap errors Launch macros with events Active x controls Create custom forms Launch a form Animate objects Package the application

