

Microsoft Excel- Analysis and Dashboards

Course Overview - 1-day course

Our Excel Analysis and Dashboards course requires you to get your hands dirty. We work through multiple exercises so you can learn to master the tools of data modelling, analysis and building visuals for effective Dashboards. We complete the course by working through a Case Study pulling all the aspects we teach on the day together, so you have a fully worked example to take back to the office.

Business Case Study –You will start with raw sales data for a Comedy Roadshow. We model the data using PowerPivot, creating relationships and the necessary calculations to build our interactive Dashboard for assessing Sales performance and profitability across various cities



Detailed Content

Data Modelling

Starting a dataset in Excel Multiple Tables
Data Modelling

Get & Transform

Using Get & Transform Why Use Get & Transform Understanding the Navigator Creating a New Query from a Creating a New Query from the Web Understanding the Query Editor Displaying the Query Editor Managing Data Columns Reducing Data Rows Adding A Data Column Transforming Data **Editing Query Steps** Merging Queries Working with Merged Queries Saving and Sharing Queries

The Advanced Editor

Power Pivot

Lists, Tables, and Relational Databases The Excel Data Model Power Pivot and The Data Model **Understanding Relational Data** Common Sense Data Modelling **Enabling Power Pivot** Connecting to a Data Source Working with The Data Model Working with Data Model Fields Changing A Power Pivot View Creating A Data Model PivotTable Using Related Power Pivot Fields Creating A Calculated Field Creating A Concatenated Field Formatting Data Model Fields Using Calculated Fields Creating A Timeline Adding Slicers

Great functions for Analysis

Understanding Data Lookup Functions Data Area Calculation Area Using CHOOSE Using VLOOKUP Using VLOOKUP For Exact Matches Using HLOOKUP Using INDEX Using SUMIF Using SUMIFS Using SUMPRODUCT

Data Validation

Validation Criteria
Input Messages & Error Messages
Drop-Down Lists Formulas
Customised Validation Criteria
Creating a Number Range
Validation
Testing a Validation
Creating an Error Message
Creating a Drop-Down List
Using Formulas as Validation
Criteria
Circling Invalid Data
Removing Invalid Circles

Controls

Understanding Types of Controls
Understanding How Controls Work
Preparing a Worksheet for Control
Adding a Combo Box Control
Changing Control Properties
Using the Cell Link to Display the
Selection
Adding a List Box Control Adding a
Scroll Bar Control
Adding a Spin Button Control
Adding Option Button Control
Adding a Group Box Control



Microsoft Excel- Analysis and Dashboards

Adding a Check Box Control Protecting a Worksheet with Controls

Using Sparklines to show trends

What is a Sparkline?
Types of Sparklines
Showing Sparklines only
Specifying a Date Axis
Hidden Data and Sparklines
Sparklines and Targets

Using Conditional formatting

Using Conditional Formatting with a Dashboard Top 10 & Custom Formatting Data Bars Show data bars outside the data cell Colour

Scales icon Sets Creating Rules Based Icon Set Removing unnecessary icons Using Symbols in Reporting Using the Camera Tool

Pivot Tables

Structure of Pivot Tables Using Compound Fields Counting in A Pivot Table Formatting PivotTable Values Working with Grand Total Working with PivotTable Subtotals Finding the Percentage of Total Finding the Difference From Grouping in PivotTable Reports Creating Running Totals Creating Calculated Fields providing **Custom Names Creating** Calculated Items Pivot Table Options Sorting in a Pivot Table Top and Bottom Views Date **Grouping Options** Hiding or Showing Data Items Conditional Formatting and Sparklines in Pivot Tables Pivot Caches and File Size

Pivot Charts

Inserting A Pivot Chart
Defining the PivotChart Structure
Changing the PivotChart Type
Using the PivotChart Filter Field
Buttons
Moving Pivot Charts to Chart
Sheets

Slicers in Reports

What are Slicers?
Creating Slicers
Timeline Slicer
Renaming Pivot Tables
Using a Slicer on Multiple Pivot

Trending Charts

Why do we use Trending Charts? Appropriate Chart Types for Trending Vertical or Y-Axis Scales Chart Titles linking to a Cell Comparative Trending Labelling Using a Secondary Axis Formatting Key Data Points How to display Actuals and Forecasts Averages and Data Smoothing

Other Report Charts

Top and Bottom Charts How to show Top or Bottom Values in Data Labels Waterfall Charts

Histograms

Creating Histograms using Formulas Creating Histograms using Pivot Tables Creating Histograms using Excel's Statistical Charts

Charting performance against a target

Performance against Targets Creating Thermometer Charts Bullet Graph

Defining Dashboards

Purpose of a Dashboard Working out what is needed What are the data sources
Will the audience need further data to drill-down to?
How often will/can the data refresh?
Does it need to be maintained?
How easy will it be to maintain?

Dashboard Design Principles

Thirteen common mistakes in dashboard design

Making an Interface

Using Macros with Dashboards Recording a Macro Navigation using Macros Macros to Change Chart types Macros and Pivot Form Controls with Dashboards

Pulling it all together

Case Study –Build a Dashboard from raw data to finished product.