

Power BI Series

Power BI Fundamentals Power BI at Work Power BI Master Class



Practical, instructor-led online training in the use of Microsoft's Power BI in Excel, on the web and desktop

Power BI Fundamentals (2 days or 4 half days)

Power BI is a set of business intelligence tools to aid in data analysis and presentation. The functionality is provided by Microsoft on the Office 365 web platform, a standalone Power BI Desktop for Windows and is integrated into Excel for Windows through add-ins.

This course introduces these powerful tools and covers the use of Power Query to import, cleanse and transform data for reporting. It includes sourcing data from existing excel workbooks, legacy CSV sources, databases, and web data sources. The use of Power Pivot and Data Model including joining of tables is demonstrated, along with the calculation of measures, KPIs and items for reporting. The DAX language is introduced, and important functions demonstrated. Reporting, including the mapping of data is covered, along with important issues with working with Australian data for correct display. Finally, the use of the BI Tools add-in for Excel for publishing the generated dashboards is demonstrated.

Power BI at Work (2 days or 4 half days)

Prerequisite: Power BI Fundamentals

Building on the knowledge gained in Power BI Fundamentals, this course works principally in the Power BI Desktop and also in the web platform to put the tools to work and build real-world reports with drill-down functionality. It canvasses deployment and security issues to consider in the design of your BI dashboard and reporting applications. Each half-day module is designed as a separate project to demonstrate how to design and implement modern reporting and dashboarding applications using the Power BI tools from Microsoft.

Ideally this course would be undertaken within one to three months of Power BI Fundamentals to gain the best benefit. There is some overlap, as the tools introduced in the Fundamentals course are used again, but familiarity with the details of those tools is assumed.

Power BI Master Class (1 day or 2 half days)

Prerequisite: Power BI at Work

This workshop is designed to follow, perhaps a month or two after the earlier ones, once the participant has started on their own reporting and dashboarding projects, capping off the participants knowledge and adding some polish and wow factors to their design and presentation.

Power BI Fundamentals

This course seeks to introduce the elements of the Power BI suite. The use of Power Query to cleanse and transform data, the use of the Data Model and Power Pivot to correlate and analyse the data sets and the tools formerly called Power View for presentation and visualisation of the results.

Add-ins

- How & when to install PowerPivot & Power View add-ins (2010 / 2013)
- Enabling / disabling add-ins

Power Query

- How Power Query vastly simplifies and streamlines the ETL process
- Creating and editing queries
- Reusing queries
- Cleansing data, modifying inconsistent data
- Transposing data for improved analysis
- Replacing data with related records
- Data consolidation

Tables

- What are tables, and what are tables good for
- Drawbacks and limitations on tables
- Tools and features for working with tables
- Alternative notation used in table-referencing formulas
- Creating / removing tables
- Naming tables

PivotTable Features

- Data Grouping
- Using slicers & timelines to filter data
- Working with and formatting fields

Course Fee and inclusions

- 4 instructor-led online sessions of 3 hours duration each – 12hours in total
- 100+ page printed and bound course manual
- Ongoing online access to associated materials, including support videos, sample files, worked solutions, reference tables
- Access to course related knowledgebase articles
- Online ticket support for revision, or implementation of learning materials

Power Pivot and the Data Model

- About Power Pivot and the Data Model
- 64bit vs 32bit
- Linking tables in the Data Model
- Using DAX (Data Analysis eXpressions)
- Key DAX functions, such as HASONEVALUE, BLANK, IF etc
- Improving data analysis by using DAX rather than cumbersome worksheet formulas
- Working with hierarchies
- Creating and managing Measures
- Creating and managing KPIs
- Utilising Measures & KPIs

Visualisation Tools

- Working with charts and 3D Maps
- Selecting and customising visualisations
- Working with maps
- Publishing including Office 365

Projects

- Period-end sample, consuming multiple data sets from ERP, HR and manufacturing
- Web-sourced data samples
- Complex ETL samples demonstrating powerful data-cleansing methodologies
- Reports and executive summaries
- Publishing reports

Discounts, may be combined where applicable*

Full Price	Group Enrolment of 3 or more	Past Student in Clarkson ITT Courses	Enrolling in Full Series
A\$ 900.00	A\$ 100.00	A\$ 100.00	A\$ 100.00

*For past students enrolling in the whole series as a group of 3 or more, \$300 discount is available to each enrollee for this course, and \$750 each for the series

All prices and discounts shown excluding GST