



THE UNIVERSITY OF
SYDNEY

Power BI Course: Intermediate

*Centre for
Continuing Education*



Power BI Course: Intermediate



This intermediate Power BI course will expand on your knowledge and skills, showing you how to create more complex data models, which in turn will result in enhanced visuals and more interactive dashboards.

Using custom slicers, defined functions and calculated measures we'll move beyond the basics and build your confidence in connecting, cleansing, and presenting your data in a variety of enriched and valuable formats.

You'll also learn the language behind Power Query – allowing you to engineer more complex queries and extract results from a variety of data sources.

Finally – it's important that shared reports are both flexible and secure. We will show you options for sharing and collaborating on dashboards and reports with stakeholders securely via the Power BI cloud Service.

Intended audience

Anyone interested in data visualisation.



Course duration

1 session, 8 hours total



Time

9am - 5pm



Format

Face-to-face
or
Online in real-time



Dates

Browse available
[course dates](#)

Prerequisites

It is recommended that you are comfortable with the learning outcomes equivalent to our [Power BI Course: Introduction](#).



Upon completion

Every participant receives a University of Sydney statement of completion.



Aims

We want to elevate your dashboards and take your reports to the next level with custom visuals and data transformations from multiple sources; including files stored in SharePoint document libraries. You will also learn to protect and secure the business intelligence that you build, analyse and share with your colleagues.



Learning outcomes

By the end of this course, you should be able to:

- understand procedures and best practices related to data acquisition and transformations
- create and work with custom DAX hierarchies
- comprehend necessity and procedure for creating a date dimension table
- write and work with DAX lookup functions
- create more efficient DAX measures, including iterator functions
- work with aggregations
- work with Custom Visuals to gain BI insights
- work with the Power BI service to share datasets and reports
- embed reports in SharePoint
- embed reports in MS Teams
- publish and export reports in different formats including CSV, PDF & XLSX.



Content

- **Getting Data and Key Transform Mechanisms**
- Accessing Various Data Sources including individual files in SharePoint and entire SharePoint Folders
- Profiling and Error Checking Columns
- Key Transformations with Power Query Editor
 - Normalising Flat Files
 - Merge Queries
 - Append Queries including combine PC and SharePoint Folder files
- Pivot and UnPivot Columns

Calculated Columns and Measures

- Create and work with Custom DAX Hierarchies, and compare drilldown, drill-through and sync slicers
- Default Summarisation compared to DAX Measures
- Create improved DAX Measures including iterator functions such as SUMX, COUNTX

Date Dimension Table

- Create a static and a dynamic Date Table using DAX CALENDAR
- Create a dynamic Date Table for fiscal year using DAX CALENDARAUTO
- Create calendar and fiscal year hierarchies
- Implement and work with Date table hierarchies within visuals, including sort month text by month number

Working with Custom Visuals

- Import Custom Visuals
- Work with Custom Slicers
- The Q & A Visual
- Key influencer visual
- Decomposition Tree Visual
- Pin a live report as a dashboard

Sharing Reports Securely using the Power BI Service

- What is a Workspace?
- Creating a Workspace
- Assign Workspace roles
- Creating and Sharing a Dashboard
- The Power BI Service Portal
- Creating and Sharing a Dashboard
- Sharing Our Report Internally
- Sharing Our Reports Externally
- Manage Permissions to a Report
- Sharing Dashboards
- Sharing Datasets
- Publish Shared Datasets as Apps
- Embed a Report in MS Teams
- Publish and Export Reports
- Embed Reports in SharePoint



“The course covered a good breadth of information, and the facilitator took the time to explain and work through questions.”

Guillaume Tutton



“This course was taught in a very easy to understand and useful way. The facilitator was great. Useful content too.”

Michelle Cohn



“Great course content and presenter.”

Tracie Trehearne



Materials

A course workbook and exercise files are distributed electronically.



Organisational training and development

This course can be delivered as a private session for groups, and tailored to meet the needs of your business. Contact us to discuss our range of organisational training solutions.

[Learn more](#)



THE UNIVERSITY OF
SYDNEY

We recognise and pay respect to the Elders and communities – past, present, and emerging – of the lands that the University of Sydney's campuses stand on. For thousands of years they have shared and exchanged knowledges across innumerable generations for the benefit of all.

Empower ambition,
inspire leadership

For more information

Centre for Continuing Education
+61 2 7255 1577

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