

Certificate in Power BI for Data Analytics

Course Fee: HK\$5,760 (May apply up to HK\$3,840 subsidy)

*Maximum saving, with the final grant subjects to approval.

This course is designed to arm participants with knowledge on using the most highly rated Data Analytics and Business Intelligence Tool, Power BI to go from data to insights! We will cover:

- ❖ Discover data analysis
- ❖ Advance features of Power BI
- ❖ Data Modelling
- ❖ Visualization and Dashboards
- ❖ Datasets management

Programme code	10014364
Duration and time	2 days 9:30-17:00
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
Medium	Cantonese, supplemented with English terminology
Course fee	HK\$5,760 (May apply up to HK\$3,840* subsidy)
Prerequisite	Complete Power BI for Business Users or experiences with Power BI Desktop
Bring Your Own Device (BYOD) Requirement	Windows 10 with minimum 2 GB RAM, 20 GB hard disk and menu display in English.

Course Objectives

- ✓ Participants will be able to analyse data from different data sources and create their own datasets
- ✓ Participants will be able to comfortably work with the different tools of the Power BI universe and know how the different tools work together
- ✓ Participants will have the required knowledge to dive deeper into Power BI and find out more about its advanced features

Course Outline

Online Session*: [Explore what Power BI can do for you](#) (69 mins)

❖ **Topic 1: Discover data analysis**

- Overview of data analysis
- Roles in data
- Tasks of a data analyst
- Build up knowledge

❖ **Topic 2: Perform analytics in Power BI**

- Introduction to analytics
- Advance data modelling
- Explore statistical summary
- Identify outliers with Power BI visuals
- Group and bin data for analysis
- Apply clustering techniques
- Conduct time series analysis
- Use the Analyze feature
- Use advanced analytics custom visuals
- Review Quick insights
- Apply AI Insights

❖ **Topic 3: Work with AI visuals in Power BI**

- Introduction to working with AI visuals
- Use the Q&A visual
- Find important factors with the Key influencers visual
- Use the Decomposition Tree visual to break down a measure
- Exercise - Data analysis in Power BI Desktop

❖ **Topic 4: Data Model Design and Use DAX in Power BI Desktop**

- Design a data model in Power BI
- Working with tables
- Work with dimensions
- Star schema design
- Analytic queries
- Configure report visuals
- Write DAX formulas
- DAX data types

- Work with DAX functions
- Use DAX operators
- Use DAX variables
- Use DAX time intelligence functions
- Additional time intelligence calculations

❖ **Topic 5: Data Visualization in Power BI**

- Introduction to visuals in Power BI
- Create and customize simple visualizations
- Create slicers
- Map visualizations
- Matrices and tables
- Create scatter, waterfall, and funnel charts
- Modify colors in charts and visuals
- Page layout and formatting

❖ **Topic 6: Manage workspaces in Power BI**

- Distribute a report or dashboard
- Monitor usage and performance
- Recommend a development life cycle strategy
- Troubleshoot data by viewing its lineage
- Configure data protection

❖ **Topic 7: Manage datasets in Power BI**

- Create dynamic reports with parameters
- Create what-if parameters
- Configure a dataset scheduled refresh
- Manage and promote datasets
- Troubleshoot service connectivity
- Exercise on datasets

❖ **Topic 8: Extra Visuals and Integration with Power Apps**

- Create Extra Visuals
- Heatmap, Sankey Diagrams, Violin Chart etc.
- Integration with Power Apps
- Exercise on datasets

Trainer Information

Dr Patrick TSOI, he is a trainer with over 25 years hands-on data science, Big Data and programming experiences. He is a Doctor of Education graduate from the Hong Kong Baptist University, Master in IT Education graduate from the University of Hong Kong and B.Eng in System Engineering and Engineering Management from the Chinese University of Hong Kong.

Award of Certificate of Accomplishment

Participant with full attendance of class will be awarded a Certificate of Accomplishment issued by the Hong Kong Productivity Council.

RTTP Training Grant Application

Companies should submit their RTTP training grant application for their employee(s) via <https://rttp.vtc.edu.hk/rttp/login> at least two weeks before course commencement. Alternatively, [application form](#) could be submitted by email to rttp@vtc.edu.hk along with supporting documents.

Enrolment Methods

1. Scan the QR code to complete the enrolment and payment online OR
2. Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) to HKPC Academy, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Mr Desmond CHAN). Please indicate the course name and course code on the envelope.



[Enrolment Link](#)

Supporting Organisations (In arbitrary order)



Inquiry

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