



TAN DUC INFORMATION TECHNOLOGY SCHOOL JSC

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Let's Reach For Excellence!

MICROSOFT POWER BI

Duration: 02 days

The main purpose of the course is to give students a good understanding of data analysis with Power BI.

AT COURSE COMPLETION

After completing this course, students will be able to

- Perform Power BI desktop data transformation.
- Describe Power BI desktop modelling.
- Create a Power BI desktop visualization.
- Implement the Power BI service.
- Describe how to connect to Excel data.
- Describe how to collaborate with Power BI data.

COURSE OUTLINE

Module 1: Introducing Power BI

- The Microsoft Self-Service Business Intelligence Solution
- The Power BI Universe
- Installing Power BI Desktop
- A First Power BI Desktop Dashboard

Lab : Creating a Power BI dashboard using Power BI Desktop

- Connecting to Power BI data
- Create a Power BI dashboard

Module 2: Shaping and Combining Data

With Power BI desktop you can shape and combine data with powerful, built-in tools. This module introduces the tools that are available for preparing your data, and transforming it into a form ready for reporting.

Lessons

- Introduce Power Query Editor
- Shaping data
- Combining data

Lab : Shaping and combining data

- Shape power BI data
 - Detecting data type
 - Rename columns
 - Remove unnecessary rows, columns
 - Use first rows as headers
 - Extracting columns
 - Unpivot columns

- Combine Power BI data
 - Appending

Module 3: Modeling data

This module describes how to shape and enhance data.

Lessons

- Relationships
- Introduce DAX
- Calculated columns and measures

Lab : Modeling Data

- Create relationships
- Adding calculated columns to data model:
 - Joining columns with &
 - Basic calculations across table with RELATED()
 - Simple Logical: IF(), AND(), OR()
- Create measures:
 - Simple aggregations: SUM(), AVERAGE()
 - Filter functions: CALCULATE(), ALL(), ALLEXPECT()
 - Examine filter context: SELECTEDVALUE()
 - Time Intelligence functions:
 - TOTALYTD(), TOTALQTD(), TOTALMTD()
 - PREVIOUSYEAR(), SAMEPERIODLASTYEAR()
 - DATEINPERIOD()

Module 4: Interactive Data Visualizations

This module describes how to create and manage interactive data visualizations.

Lessons

- Creating Power BI reports
- Formatting visuals

Lab : Creating a Power BI report

- Drill up, drill down
- Creating Popup tooltips

- Creating drill-through

Module 5: Publishing report to Power BI Services

This module describes how to publish & share reports in Power BI Services.

Lab:

- Introduce Power BI Services
- Publish and share reports
- Create a dashboard