JAMES COOK INSTITUTE

DIGITAL & IT

BASIC



[Synchronous E-Learning]

Data Visualization Techniques Using Power BI

Description

Organisations now have access to many sources of digital data. Organisations must cultivate staff with the necessary skills to be able to analyse these data and apply contemporary techniques to create dynamic and interactive visual displays in order to better illustrate and articulate to business stakeholders.

This course sets out the skills and abilities for learners to master the features and functions of Microsoft Power BI. Learners will be able to understand key concepts and techniques on creating data visualization, create visuals, understand data relationships and generate data for forecasting and trends.

Who is this Course For?

This training is relevant to Executives, Senior Executives and Data Analyst, Managers who are keen to learn how to fully utilise Power BI Desktop as a BI tool. This training is relevant to learners who are keen to explore data analytics as a job role.

Course Objectives

By the end of this course, learners will be able to:

- Select the appropriate visualization techniques to convey findings with usage of interactive visual display.
- Present different data types to reflect business trends using visualization techniques to show correlations between data sets.
- Incorporate suitable chart elements to create informative and interactive data displays.
- Develop basic dashboards KPI scorecards to display benchmark and results achieved.
- Incorporate interactive graphical visuals dashboard presentations.
- Communicate the limitations of data in dashboard with visualization to show business insights.

Course Duration
16 Hours

Course Reference No.
TGS-2026063807

Mode of Training
Synchronous E-Learning

Funding Validity
Till 17 May 2028

Full Fee $650

(Subject to 9% GST)

Pricing	Funding	Nett Fee (After GST)
SME OR SINGAPOREAN AGE 40 AND ABOVE	70%	$253.50
NON-SME OR SINGAPOREAN AGE 21 TO 39 OR PR	50%	$383.50

Subsidies available: SFC, SFEC, PSEA & UTAP

As pre-requisites may differ by course, we strongly encourage you to review the details and contact us for any clarification.

Visit our Website

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Course Content

Learning Unit 1: What Is Data Visualization?

- What is Data Visualization?
- Purpose of Data Visualization
- Understanding the types of visualization available for various purpose
- Understanding interactivity between data visualization

Learning Unit 2: Navigating through Power BI Desktop and Data Models

- Understanding the different views in Power BI Desktop
- Understanding the use of data formats and types
- Getting Various Data Type into Power BI Desktop
- Data Transformation in Power Query
- Creating Basic Visualization
- Creating Relationships between Tables

Learning Unit 3: Setup and Data Visualization Techniques with Visual Filters and Power Query

- Setting up page size and tool tips to support data visualization
- Using Visual Filters on Single Visual, Visuals on Page and Visuals all Page
- Applying advance slicer techniques
- What is a calculated column?
- What is a measure

Learning Unit 4: Creating Scorecards, KPIs and Gauge Charts and DAX Formulas

- Create DAX Formulas
- Using scorecards
- Using KPIs
- Using Gauge Charts

Learning Unit 5 Publishing Dashboards on Analysis Services

- What is Power BI Analysis Services?
- Using the Publish feature
- Creating reports on Workplace
- Creating Dashboards

Learning Unit 6: Techniques to Provide Context and Details to Data and Using Predictive Analytics

· Predictive Analysis
· Using Tooltips
· Creating Drillthroughs

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