

# Power BI

GoSkills online course syllabus

Monday, March 17, 2025

**Skill level**

Beginner

**Lessons**

42

**Pre-requisites**

None

**Estimated study time**

20h for all materials

**Instructor**

Ken Puls

## What is Power BI?

---

- 1** **Introduction to Power BI**  
An introduction to Power BI and the problems it solves for us.
- 2** **Overview of Power BI Components**  
An overview of the components that make up Power BI, and their costs.
- 3** **Power BI Workflow**  
A review of the Power BI workflow

## Getting Started with Power BI

---

- 4** **Getting Data from a Text File**  
Using Power BI to import data from a text (or CSV) file
- 5** **Creating Visuals**  
Creating visuals in Power BI
- 6** **Publishing to the Power BI service**  
Publishing reports to the Power BI web service
- 7** **Dashboards vs Reports**  
An explanation of how Power BI defines reports and dashboards
- 8** **Working with Q&A**  
Using Q&A to ask the database for information

## 9 Generating Quick Insights

Working with Quick Insights

## 10 Working with Alerts

Setting and managing alerts for your data

## 11 Sharing Reports and Dashboards

Sharing Power BI Reports and Dashboards

## 12 Named Workspaces

Named Workspaces

## 13 Sharing via Apps

Sharing via Apps

# Data & Modeling

---

## 14 Collecting More Data

Working with Excel data in Power BI

## 15 Key Concepts for Relating Data

Key concepts you should know before relating data

## 16 Solving m2m Joins via Bridge tables

Creating Bridge Tables in order to link tables via one to many relationships

## 17 Solving m2m Joins via Composite keys

Creating composite keys in order to link tables via one to many relationships

## 18 Solving m2m Joins via De-Aggregation

Creating new tables in order to link tables via one to many relationships

## 19 Table De-Aggregation - Application

Creating new dimensional tables for our sample model

## 20 Dynamic Calendars - Theory

How to create a dynamic self-updating calendar for your model

## 21 Dynamic Calendars - Application

Building a dynamic calendar for our sample model

# Working with DAX (Power BI's formula language)

---

## 22 Basic Measures - Theory

How and why you should create explicit measures in Power BI

## 23 Basic Measures - Application

Creating measures for our sample model

## 24 Understanding Measure Calculation

Understanding how the DAX engine calculates measure results

## 25 Performing Math with Compound Measures

How to perform math against pre-defined measures

## 26 The CALCULATE() function - Theory

Understanding CALCULATE(), the most powerful function in DAX

## 27 The CALCULATE() function - Application

Creating measures for our sample model using CALCULATE()

## 28 The ALL() function - Theory

Removing Filters with the ALL() function

## 29 The ALL() function - Application

Creating measures for our sample model using ALL()

## 30 Quick Measures

Using quick measures for time intelligence

# Exploring Visuals

---

## 31 Global Visual Concepts

Concepts applicable to all visuals

- ## 32 Bar & Column Charts

Working with Bar and Column charts in Power BI
- ## 33 Line & Area Charts

Working with Line charts in Power BI
- ## 34 Combination Charts

Building Combination charts in Power BI
- ## 35 Maps

Working with Maps, Azure Maps and Filled Maps in Power BI
- ## 36 Pie Charts

Working with Pie and Donut charts in Power BI
- ## 37 Treeview

Working with Treeview visuals in Power BI
- ## 38 Cards

Working with Cards and Multi-row Cards in Power BI
- ## 39 Matrix

Working with Matrix visuals in Power BI
- ## 40 Tables

Working with Table visuals in Power BI
- ## 41 KPIs

Working with KPIs in Power BI
- ## 42 Custom Visuals - Chiclet Slicer

Working with custom visuals in Power BI