Microsoft Power BI Professional Certification Course

Course Overview

Master the fundamentals of Business Intelligence, data analysis, data visualization, and interactive dashboard development with Tech Learniversity's Microsoft Power BI Professional Certification Course.

This beginner-to-intermediate program combines live instructor-led training, hands-on exercises, and real-world business projects to help learners transform raw data into meaningful business insights using Microsoft Power BI.

Course Duration: 50 Hours of Live Online Instructor-Led Training

Course Level: Beginner to Intermediate — No Prior Power BI or Programming Experience Required

Course Structure: 11 Comprehensive Modules with Guided Practical Exercises

Practical Projects: 2 Real-World Business Analytics Projects — Retail Sales and HR/Financial Analytics

Course Certification: Course Completion Certificate will be provided by Tech Learniversity.

Expected Learning Outcomes

Upon completion of the course, learners should be able to import and transform business data, create relational data models, develop DAX measures, design interactive dashboards, analyze business KPIs, and understand Power BI report publishing and sharing.

Learners will also gain practical experience through two business reporting projects.

Syllabus

Module 01: Getting Started with Power BI and Business Intelligence

- Introduction to Business Intelligence, reports, and dashboards.
- Overview of the Power BI ecosystem, Desktop, and Service.
- Power BI installation and interface navigation.
- Understanding data types and basic reporting concepts.
- Creating the first Power BI report.

Module 02: Understanding Data and Importing from Common Sources

- Working with Excel and CSV datasets.
- Importing data using Power BI Get Data.
- Understanding tables, columns, and data structures.
- Identifying missing values and data quality issues.
- Importing and comparing business datasets.

Module 03: Power Query for Data Cleaning and Transformation

- Introduction to Power Query Editor.
- Cleaning data, removing duplicates, and handling errors.
- Transforming columns, text, dates, and data types.
- Filtering, sorting, grouping, pivoting, and unpivoting.
- Merging and appending multiple datasets.

Module 04: Data Relationships and Simple Star Schema Modeling

- Understanding fact and dimension tables.
- Creating relationships between datasets.
- Primary keys, cardinality, and filter direction.
- Building calendar tables and date hierarchies.
- Creating a simple star schema data model.

Module 05: DAX Essentials and Business KPI Calculations

- Introduction to Data Analysis Expressions (DAX).
- Measures and calculated columns.
- SUM, COUNT, COUNTROWS, DISTINCTCOUNT, and AVERAGE.
- DIVIDE, CALCULATE, IF, and SWITCH functions.
- Creating revenue, profit, margin, and order KPIs.

Module 06: Intermediate DAX and Simple Time Comparisons

- Using CALCULATE and introductory ALL functions.
- Year-to-Date (YTD) calculations.
- Previous-year and year-over-year comparisons.
- Running totals and rolling averages.
- Comparing current and previous business performance.

Module 07: Business Charts, Dashboards and Data Storytelling

- Creating charts, tables, matrices, and KPI cards.
- Applying slicers and interactive filters.
- Dashboard formatting, layouts, and themes.
- Introduction to data storytelling.
- Developing a Retail Sales Performance dashboard.

Module 08: Interactive Reporting and User Navigation

- Drill-down and drillthrough functionality.
- Creating bookmarks and navigation buttons.
- Report page navigation.
- Interactive tooltips and cross-filtering.
- Improving dashboard user experience.

Module 09: Publishing, Sharing and Refresh Basics

- Introduction to Power BI Service.
- Publishing reports and understanding workspaces.
- Report sharing and licensing fundamentals.
- Scheduled refresh and data gateway concepts.
- Managing basic report access settings.

Module 10: Introduction to Security, Data Quality and Troubleshooting

- Fundamentals of Row-Level Security (RLS).
- Data privacy and report permissions.
- Data validation and quality assurance.
- Introduction to Performance Analyzer.
- Troubleshooting common reporting and refresh issues.

Module 11: Guided Projects, Presentation and Final Assessment

- Guided Project 1: Retail Sales Performance Dashboard.
- Project 2: HR or Financial Analytics Dashboard.
- Applying Power Query, Data Modeling, and DAX.
- Creating and presenting interactive business reports.
- Final practical assessment and instructor feedback.

Hands-On Projects

Project 01 — Retail Sales Performance Dashboard

Develop an interactive Power BI dashboard to analyze sales revenue, profitability, order performance, and business trends using Power Query, DAX, and data visualization techniques.

Project 02 — HR or Financial Analytics Dashboard

Create an interactive dashboard using HR or financial datasets to analyze business metrics, monitor performance, and communicate data-driven insights.