



## COURSE SYLLABUS

# Microsoft Power BI Intermediate

Take the next step in Power BI with harder imports, time intelligence, R and Python visuals, KPIs and scorecards, advanced report design, and basic statistical analysis.

### **\$900 per person**

9 course hours (on-demand video and labs) plus 1 hour of coaching

On-demand asynchronous training with online support, plus 1 hour of coaching.

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| <b>Credential type</b> | Certificate, issued by We Can Code IT                                                                                                                                                                                                                                                                                                                       |
| <b>Clock hours</b>     | 10 (9 course hours plus 1 hour of coaching)                                                                                                                                                                                                                                                                                                                 |
| <b>Price</b>           | \$900 per person                                                                                                                                                                                                                                                                                                                                            |
| <b>Time</b>            | 9 course hours (on-demand video and labs) plus 1 hour of coaching                                                                                                                                                                                                                                                                                           |
| <b>Delivery</b>        | On-demand asynchronous training with online support, plus 1 hour of coaching.                                                                                                                                                                                                                                                                               |
| <b>Credential</b>      | Certificate of completion from We Can Code IT                                                                                                                                                                                                                                                                                                               |
| <b>Who it is for</b>   | This course suits data analysts, reporting analysts, and team leads who already publish basic Power BI reports and want the next set of tools.                                                                                                                                                                                                              |
| <b>Prerequisites</b>   | Completion of a first Power BI course, or equivalent experience building and publishing basic reports; WCCI's Microsoft Power BI for Excel or Level 1 Report Builder course is a good starting point                                                                                                                                                        |
| <b>Requirements</b>    | Requires a Windows PC; Power BI Desktop (free, Windows only); R and Python installed locally for the script visuals module; your IT team may need to approve the installs; Python and R visuals render in the Power BI service only with a paid Power BI Pro or Premium Per User licence; Creating and sharing scorecards needs a paid Power BI Pro licence |

## About this course

This course is the next step after a first Power BI course. You will import and profile data from PDFs and web pages, use fuzzy matching and custom columns, and model for time with what-if parameters and time intelligence. You will also add R and Python visuals, build KPIs and scorecards, design more polished reports and dashboards, and apply basic statistical analysis such as forecasting and outlier detection.

## What you will be able to do

- You will be able to import and profile data from PDF tables and web pages and combine sources with fuzzy-match merges and custom columns.
- You will be able to add what-if parameters, groups, bins, and time intelligence measures to a model.
- You will be able to build one R visual and one Python visual and explain where each will render.
- You will be able to create a KPI visual and a scorecard with goals, targets, and check-ins.

- You will be able to apply themes, conditional formatting, drill-through, and data-driven images to a report.
- You will be able to add reference lines, a forecast, and outlier detection to a visual.

## Syllabus

| Module                                                                                                                                                                                                                                        | Hours |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>1. Harder Imports and Data Profiling</b><br>PDF tables, Web pages, Fuzzy-match merges, Custom columns, Data profiling.<br>Lab: You will combine a PDF table and a web table with fuzzy matching and profile the result for quality issues. | 2 h   |
| <b>2. Modeling for Time</b><br>What-if parameters, Grouping and binning, Time intelligence with quick measures.<br>Lab: You will add a what-if parameter and time intelligence measures to test a pricing scenario.                           | 1.5 h |
| <b>3. R and Python Visuals</b><br>R script visuals, Python script visuals, A regression in R, A forecast in Python, Where script visuals render.<br>Lab: You will build one regression visual in R and one forecast visual in Python.         | 1.5 h |
| <b>4. KPIs and Scorecards</b><br>KPI visual, Goals and targets, Check-ins.<br>Lab: You will build a scorecard with three goals linked to report data and record a check-in.                                                                   | 1 h   |
| <b>5. Advanced Report and Dashboard Design</b><br>Report themes, Conditional formatting, Drill-through, Data-driven images.<br>Lab: You will redesign a report with a theme, conditional formatting, and a drill-through detail page.         | 1.5 h |
| <b>6. Basic Statistical Analysis</b><br>Analytics pane, Reference lines, Forecasting, Outlier detection.<br>Lab: You will add reference lines, a forecast, and outlier detection to a sales trend and explain what they show.                 | 1.5 h |
| <b>Coaching sessions</b><br>1 hour of coaching. One-on-one or small-group coaching, scheduled with your coach.                                                                                                                                | 1 h   |

Live online or in-person sessions are available for an additional fee. Email [admissions@wecancodeit.org](mailto:admissions@wecancodeit.org) for details.

## Provider

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