



COURSE SYLLABUS

Advanced Microsoft Power BI

Take your Power BI work further with advanced DAX, Query Editor transformations, spatial analytics, R integration, and the security and governance needed to deploy it.

\$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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Take your Power BI work further with advanced DAX, Query Editor transformations, spatial analytics, R integration, and the security and governance needed to deploy it.

Credential type	Certificate, issued by We Can Code IT
Clock hours	10 (9 course hours plus 1 hour of coaching)
Price	\$900 per person
Time	9 course hours (on-demand video and labs) plus 1 hour of coaching
Delivery	On-demand asynchronous training with online support, plus 1 hour of coaching.
Credential	Certificate of completion from We Can Code IT
Who it is for	This course suits data analysts, BI analysts, and report developers who maintain production Power BI content that other people rely on.
Prerequisites	You already build Power BI reports and basic data models; You are comfortable writing simple DAX measures; Completion of WCCI's Data Model Design Using Power BI course, or equivalent experience, is recommended
Requirements	Requires a Windows PC; Power BI Desktop (free, Windows only); R installed locally for the R module; R visuals in the Power BI service need a paid Power BI Pro or Premium Per User licence; Publishing to a shared workspace and testing row-level security need a paid Power BI Pro or Premium Per User licence or a Fabric capacity; ArcGIS for Power BI must be enabled by your tenant administrator

About this course

This course is for people who already build working Power BI reports and models and now need the harder techniques. You will write advanced DAX patterns, handle messy sources in the Query Editor, map data with ArcGIS for Power BI, and bring R into your reports. You will finish by tuning performance and securing a model so it can be deployed and governed with confidence.

What you will be able to do

- You will be able to write DAX measures that use variables, running totals, moving averages, and calculated tables.
- You will be able to clean and normalise messy sources in the Query Editor using conditional columns, error handling, and merges.
- You will be able to build a spatial analysis in ArcGIS for Power BI with reference layers, buffers, and drive-time areas.

- You will be able to use an R script as a data source and add an R visual to a report, and explain its licensing and refresh limits.
- You will be able to find and fix slow visuals with Performance Analyzer by reducing columns and granularity.
- You will be able to secure a model with row-level security roles, workspace roles, sensitivity labels, and endorsement.

Syllabus

Module	Hours
1. Advanced DAX Patterns Variables in measures, Running totals, Moving averages, Calculated tables. Lab: You will add a set of running-total and moving-average measures to a sales model and check them against a known result.	2 h
2. Advanced Query Editor Transformations Conditional columns, Error rows, Merge queries, Normalising messy sources. Lab: You will turn an inconsistent multi-source extract into one clean, refreshable table.	1.5 h
3. Spatial Analytics with ArcGIS for Power BI Location types, Reference layers, Buffers, Drive-time areas. Lab: You will map customer locations and add a drive-time area around a site to compare coverage.	1.5 h
4. R in Power BI R script data sources, R visuals, Licensing limits, Refresh limits. Lab: You will load data through an R script and build one R visual, then note where it will and will not render.	1.5 h
5. Performance Tuning Performance Analyzer, Removing unused columns, Reducing granularity. Lab: You will measure a slow report page, apply two model changes, and record the improvement.	1 h
6. Secure and Deploy Row-level security roles, Workspace roles, Sensitivity labels, Endorsement. Lab: You will create and test row-level security roles on a model and prepare it for endorsement in a shared workspace.	1.5 h
Coaching sessions 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 for details.

Provider

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