



COURSE SYLLABUS

Data Model Design Using Power BI

Connect to varied sources, clean and transform raw data in Power Query, design a sound Power BI model, and add a first set of DAX and time intelligence measures.

\$695 per person

7 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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Credential type	Certificate, issued by We Can Code IT
Clock hours	8 (7 course hours plus 1 hour of coaching)
Price	\$695 per person
Time	7 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, reporting analysts, and finance or operations staff who prepare data for their own or other people's reports and spend too long fixing messy sources.
Prerequisites	You have built at least one simple Power BI report; Completion of WCCI's Data Analysis Using Power BI Desktop - Level 1 - Report Builder course, or equivalent experience, is recommended
Requirements	Requires a Windows PC; Power BI Desktop (free, Windows only); Course data files and a sample database connection supplied by WCCI

About this course

This course is about getting the data right before anyone builds a report. You will connect to several kinds of source, clean and reshape raw data in Power Query, and design a model with fact and dimension tables and a proper date table. You will finish by adding summary measures and a starter set of time intelligence so your reports can compare periods.

What you will be able to do

- You will be able to connect Power BI to Excel files, a folder of CSV files, a database, and a web table, using parameters where helpful.
- You will be able to profile, clean, pivot, unpivot, merge, and append data in Power Query.
- You will be able to design a model with fact and dimension tables and set the correct relationship cardinality and filter direction.
- You will be able to add and mark a date table and tidy the model with hidden fields and sort-by columns.

- You will be able to write summary measures with CALCULATE and add year-to-date and prior-year comparisons.

Syllabus

Module	Hours
1. Connect to Diverse Sources Excel workbooks, Folder of CSV files, Database tables, Web tables, Parameters and credentials. Lab: You will connect one report to four different sources and set a parameter that switches the source folder.	1 h
2. Clean and Transform in Power Query Column profiling, Data types and nulls, Pivot and unpivot, Merge and append. Lab: You will clean a messy sales export and combine it with a second source into a single analysis-ready table.	1.5 h
3. Shape the Model Fact and dimension tables, Keys, Relationships, Cardinality and filter direction. Lab: You will rebuild a flat table into a star schema and confirm the relationships filter correctly.	1.5 h
4. Date Table and Model Settings Building a date table, Mark as date table, Hiding fields, Sort-by columns. Lab: You will add and mark a date table, then hide technical fields so the model is easy for report builders to use.	1 h
5. First DAX Measures Summary measures, CALCULATE, Filter context basics. Lab: You will write a small set of summary measures and use CALCULATE to compare a filtered total with the overall total.	1 h
6. Time Intelligence Starter Set Year-to-date, Prior year, Time-aware report page. Lab: You will add year-to-date and prior-year measures and build a report page that compares periods.	1 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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