

Power BI Training for the Water Industry

TRANSFORM YOUR DATA INTO DECISIONS



WHO IS THIS COURSE DESIGNED FOR?

Our training is designed for water professionals, by water professionals and Power BI experts! It is perfect for those looking to upskill quickly in Power BI using examples from across the water industry.

No previous Power BI experience required!



HOW DO WE RUN TRAINING?

Our course is designed to fast-track your learning! Get up to speed quickly through our pre-work videos, learn together in self-paced group labs and test your knowledge at home through our quizzes!

We limit our class (max 8) and run virtual and in-house!



LEARNING OUTCOMES

You'll learn Power BI, in Power BI! At the end of the course you'll be able to import and transform your data, create dynamic DAX calculations, design interactive reports, and share these online.

Confidently create your own decision support tools!

LEARN FROM THE EXPERTS



The DiscoverEI Team are **Microsoft Certified Trainers** in Power BI, **Microsoft Most Valuable Professionals** for the Data Platform and have over 15 years combined experience in **Water Resource Management** and **Environmental Engineering**

POWER BI FOR THE WATER INDUSTRY

In this course you will learn...



Power BI 101: A crash-course in Power BI from data import, data modelling, calculations (DAX), visualisations and collaboration.



Streamline Data Processing: Learn Power Query fundamentals, how to automate data processing tasks, and create a relational data model.



Time-series and Trends: An introduction into data visualisation, where you'll create interactive time-series charts and matrices to display trends in water supply and demand.



Interactive Water Balances: Learn DAX fundamentals by calculating an interactive water balance of inflows, outflows and change in storage.



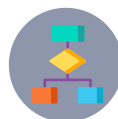
Scenario Analysis: You'll explore different applications of 'What If' parameters to dynamically assess the climate change and population growth impacts on water supply.



Spatial Trends: Learn how to create interactive point and polygon maps using the MapBox custom visual, to show spatial distributions of water supply and demand.



Interactive Dashboards: You'll combine all the pieces into an interactive dashboard, and use concepts such as edit interactions, bookmarks, drill-down, to create a holistic reporting tool.



Decision Support Tools: You'll learn how to communicate insights at a glance using conditional formatting, tooltips and infographic style reporting.



Online Reporting and Collaboration: You'll learn how to share and distribute your Power BI reports in the Online Service and Mobile App, and embed in website portals.



By completing our 13 hour training course you'll learn practical skills to develop interactive water management reporting tools and online dashboards in Power BI, and help foster a culture of data driven decision making across your organisation.

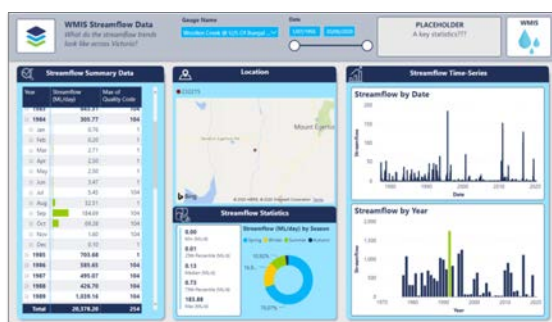


POWER BI FOR THE WATER INDUSTRY

Ready-made, Water Resources Dashboards

Create four water Power BI reports from scratch!

Our water management Power BI reports that we create together will provide you with an excellent example, directly applicable to your industry, which you can adapt for your own projects. Example Power BI reports created across our four Modules are provided below (noting that these are subject to change as we regularly update our training content).



STREAMFLOW ANALYSIS (WMIS)

In the first module you'll learn the fundamentals of Power BI, from how to automate data import (Power Query), create simple calculations (DAX) and interactive visuals to analyse long-term and seasonal trends in streamflow.



COMMUNITY FEEDBACK REPORT

In the second module you'll learn how to analyse qualitative data (from community surveys) and get a deep-dive into visualisations including custom visuals, formatting and corporate styles. You'll learn how to share your report online, navigate the online service and configure a mobile report.



WATER BALANCE MODELLING

In the third module we'll focus on streamlining data transformations (Power Query and M) and DAX calculations to compute an interactive water balance from water resource modelling outputs. You'll learn how to configure your report to automate data import and error handling.



WATER FORECAST SCENARIOS

In the fourth module, we'll bring together all the concepts and create an interactive decision support tool to dynamically project water supply and demand for a range of climate and population growth scenarios.



POWER BI FOR THE WATER INDUSTRY

Training Resources and Course Details

Training Resources:

- **Pre-work video** exercise (20 minutes) designed to get everyone up to speed on the basics of Power BI.
- **Online Training Portal** collaboration and learning hub for easy access to course materials, including quizzes at the end of each module.
- **Power BI Pro Licence** for 1 month (on DiscoverEI tenant) to enable access to the Power BI Service.
- **Four Lab Tutorials** with step-by-step instructions which provide great references back in the office!
- **Power BI Files:** All Power BI (PBIX) files and datasets provided, including staged PBIX files aligned with the Labs, so you will not fall behind!

Course Details



Duration:

13 training hours
(excluding break time)

Delivered Over:

- 2 full-days (9:00 - 5:00), **OR**
- 4 half-days (8:30 - 12:30)

Cost for Virtual:

- \$999 AUD/pp (exc. GST)*

Cost for In-Person:

- \$1,250 AUD/pp (exc. GST)*
- Food and networking event provided for training delivered at DiscoverEI.

Tailored Programs:

- Get in touch with our team for a custom quote.

***10% discount when 4+ delegates from the same organisation register.** This also entitles your group to a private training session.



DISCOVEREI

Your Data Champions

At DiscoverEI, we love teaching you how to turn mountains of data into practical, useful, decision-guiding information.



Client Testimonials

"Significant preparation and material provided to help group 'get up to speed' to smooth out divergence of skill levels. Clear, concise and patient communication and support provided throughout the training, with easy to understand visual tools. Handy tips for finding and using free and low-cost training and supporting materials compatible with government values."



*Project Officer - Water Resource Strategy
Department of Environment, Land, Water and Planning (DELWP)*

ALICE DRUMMOND

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Alice is Director of Environmental Analytics at DiscoverEI. Working as a Water Resources Engineer for over 9 years' specialising in surface water and groundwater modelling, Alice has helped secure sustainable water resources across Australia and New Zealand. Alice has a deep understanding of how environmental data can be used to provide insights, drive efficiencies and really improve communication.

'My passion is finding clever ways to process, analyse and communicate environmental data.'

As a Microsoft Data Platform MVP, and Microsoft Certified Trainer in Business Intelligence, Alice applies the latest data analytics tools to the environmental industry to streamline data processing and build interactive dashboards.



CHRISTIAN BOROvac

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Christian is the Director of Visual Solutions at DiscoverEI. He has worked as an environmental engineer for over 9 years, specialising in contamination and remediation, and has helped clean-up impacted sites across Australia and New Zealand. From this experience, he has learnt how the simple act of using schematics, visualisations and combining this with data can be a really powerful tool to help bridge the communication gap.

'I have a passion for bringing numbers on a page to life'

He is a Microsoft Associate in Business Intelligence, a Microsoft Certified Trainer and licenced Remote Drone Pilot (RePL)





UNLEASH YOUR DATA

Get in touch to register or learn more about DiscoverEI's Power BI for the Water Industry training programs

