

SYLLABUS POWER BI



**Learn how to design
a dashboard**





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DATASCIENTEST IN NUMBERS

We are DataScientest. Not only are we the market leader in Data Science training in France. We also are the learning institute who offer business-oriented training to professionals and individuals who want to upgrade their skills in the data field.

+70

Fortune Global 500
Companies trained

+15k

Alumni

+3k

Hours of **content**

Key figures for the Power BI course in 2023

937

Number of **subscribers**

91,1%

Satisfaction rate

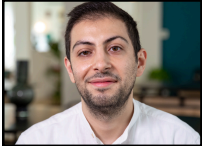
Ils nous font confiance





OUR TEAM

DataScientest's teaching team is made exclusively of internal professors. They are fully dedicated to teaching and are consistently updating our various training and expert courses.



Charles S.

CTO & Academic Manager
(9 years of experience)

Having graduated of the "École Polytechnique", Charles is specialized in programming, Machine Learning and Deep Learning. As CTO of DataScientest, he leads both the faculty and developers working on the platform.



Raphaël K.

Pedagogical Director
(9 years of experience)

Raphaël has a Master's degree in "Statistical Learning and Data Science" from the University of Paris-Dauphine. He designed the Data Analyst course thanks to his knowledge of programming, data visualization and machine learning.

Lecturers

The Data Scientist course is run by lecturers with degrees from leading universities in France. They are selected for their expertise and teaching skills.



Jérémy R.

Certified business intelligence Trainer

With a Master's degree in Business Informatics, Jeremy has more than 6 years of experience in Business Intelligence, notably as an independent consultant on Microstrategy solutions. He accompanies our learners in the Data Analyst curriculum and in short courses on Power BI and Microstrategy.



Emerick D.

Business Intelligence Trainer

A graduate of the Ecole Supérieure d'Informatique where he started teaching at an early age, Emerick now alternates between consulting and training as a freelancer. With almost 10 years of experience in Business Intelligence, Emerick has specialized in Microsoft technologies, including Power BI.



Anthony J.

DevOps and AWS Technical Instructor

As an authorized instructor at AWS, Anthony has a set of certifications, including certifications of a Solutions Architect and Machine Learning. With his passion for Data Science and a team of experts, Anthony leads our DevOps and AWS programs.

[Book an appointment](#)



OUR PEDAGOGICAL APPROACH

DataScientest offers you a course which is a 100% in English and distance learning with a pedagogy based on Learning By Doing.

Hybride Format

For **50%** of the time, you are accompanied by your teacher and your cohort for **videoconference sessions**. For the remaining **50%**, you work on the Power BI tool through **exercises coached** by our **certified trainers**. No installation is required, and you can access the necessary tools via our platform using a virtual machine.

This format enables you to apply the concepts explained directly after the masterclass to data and problems you may encounter in your company. To help you prepare for the **official PL-300 exam** in the best possible conditions, we offer MCQs at the end of the course, and we regularly update our **mock exams** so that you are always better prepared.

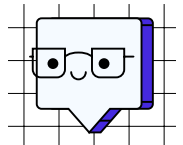
Prerequisites

To take part in the "dashboard creation" course, we advise our students to have prior knowledge in principles of databases and data processing, both locally and in the Cloud.

For the "in-depth tool" course, our students should also be familiar with the basic concepts of Power BI (architecture, integration and transformations with Power Query, DAX Measures, dashboard creation, etc.). To take the course, the student must have a computer with an internet connection and a webcam.

Support and assistance

Every day of the week from 9am to 5pm, all the data expert take turns on a dedicated forum to offer personalized technical assistance to you. Educational support is also offered via the **"Slack"**, our communication network, and throughout our Q&A sessions.



Evaluation methods

Practical exercises and MCQs are included throughout the course. The RS5445 certification is obtained by passing an online exam supervised by Pearson VUE and delivered at an accredited exam centre.

An evaluation system has been set up throughout your training process. From your first meeting with a DataScientest advisor, **we collect your expectations and needs** at registration. Finally, through satisfaction questionnaires, we collect your appreciation and reviews.



THE COURSE

DataScientest offers different formats to train you on Power BI software and prepare you for the official Microsoft certification: Microsoft Power BI Data Analyst Associate.

Power BI - Dashboard Konzeption

Level: beginner **Duration:** 3 days

You have experience with Excel or a BI tool such as Tableau or Qlik and you want to **learn about Power BI**? This training is for you! During these 3 consecutive days of training, you will learn how to use the tools of this software such as the DAX language or Power Query. At the end of the course, you will be able to :

- Analyze raw data with Power BI
- Sort, organize and transform data
- Model data
- Create a dashboard with several analysis axes

Power BI - Deepening of the tool

Level: advanced **Duration:** 2 days

You already have experience with Power BI and you want to **improve** your skills? This format is what you are looking for! During 2 consecutive days of training, a teacher will accompany you and teach you all the secrets of this tool. You are going to see each service of the platform in a more advanced way and discover the notions of DataFlows and Incremental Refresh.

Power BI - Complete mastery

Level: beginner **Duration:** 5 days

If you wish to discover and master the Power BI tool, the combination of the previous courses is what you need! During these 5 days of training, you will develop strong skills on this software and learn the complete use of the tool.

You will be prepared to take the official Microsoft certification in order to obtain your "**Microsoft Power BI Data Analyst Associate**" status. At the end, you will be able to:

- Sort, organize and transform data with the advanced features of Power Query M and Dataflow.
- Create complex queries and calculations in DAX.
- Model data and integrate custom dataviz from the community.
- Create reports and dashboards with multiple axes of analysis.
- Deploy a report on Power BI Service and from one workspace to another with pipelines.

	Power BI - Dashboard Conception duration 21h			Power BI - Deepening the tool duration 14h	
	Day 1	Day 2	Day 3	Day 1	Day 2
9:00	Welcome	Welcome	Welcome	Welcome	Welcome
9:30	MC: Introduction to BI and Power BI	MC: Modelling	MC: Power BI Service & Roles	MC: Advanced Power Query M	MC: Incremental Refresh
10:00		PW: Modelling	PW: Dataviz and Power BI Service	PW: Advanced Power Query M	PW: Incremental Refresh
10:30					MC: MCQ
11:00					
11:30	PW: Connection to data sources	MC: PW correction	MC: PW correction	MC: PW correction	
12:00	Lunch	Lunch	Lunch	Lunch	Lunch
12:30					
13:00					
13:30	MC: Introduction to Power Query	MC: DAX Language	Project	MC: Advanced Dax	MC: Dataviz Advanced & Streaming Dataset
14:00	PW: Power Query	PW: DAX Language		PW : Advanced DAX	PW: Dataviz Advanced & Streaming Dataset
14:30					
15:00	MC: Advanced Power Query	MC: Dataviz	MCQ	MC: DataFlows & Pipeline	MC: Exam preparation
15:30	PW: Advanced Power Query	PW: Dataviz		PW: DataFlows & Pipeline	
16:00				MCQ	
16:30	Review of the day	Review of the day	Review of the day	Review of the day	Review of the day
17:00					

Synchronous (video call with teacher)
 Practical work (coached)
 Projects and MCQs (coached)
 Other

Power BI - Dashboard conception



1 - Introduction

Introduction to Business Intelligence,
Objectives and implementation



2 - Introduction to Power BI

First steps on Power BI,
Downloading, installation and discovery of the interface



3 - Transform data with Power Query

Preparing data with Power Query, Connecting to data
sources, Transforming data to make it usable



4 - Data Modelling and DAX language

Modelling: linking information,
Creating useful measures with the DAX language



5 - Data Visualisation

Selection of relevant chart types,
Creation of dashboards



6 - Workspace management and security

Report distribution,
Data access management according to user rights

Power BI - Deepening the tool



1 - Advanced Power Query

Power Query M,
Use of advanced functions and features



2 - Advanced DAX

Creating measures with DAX,
Data management with DAX



3 - Dataflow and pipeline

Preparing data with dataflow,
Creating pipelines between workspaces



4 - Incremental refresh and hybrid table

Management of dataset refreshment,
Setting up hybrid tables



5 - Advanced Dataviz and streaming dataset

Creating a streaming dataset,
Handling of more elaborate visualizations

[Book an appointment](#)



OUR PARTNERS

DataScientest has developed partnerships with world-renowned institutions. On one hand, with academic institutions such as Université Paris - Panthéon Sorbonne, and on the other hand, with software publishers such as AWS or Microsoft. These partnerships are designed to help learners distinguish themselves from other candidates by obtaining certifications recognized by companies."



Amazon Web Services

Software partner

Today, DataScientest enjoys the exclusive status of an Amazon Digital Partner. Therefore, we have been authorized by Amazon to train teams on their products and services. As part of this partnership, we have built several courses that prepare you for the official **AWS certifications**, such as **Cloud Practitioner** and **Solution Architect**. The registration fee for the official exam is included in the course price.



Microsoft

Software partner

DataScientest is a **Microsoft Learning Partner** and therefore authorized to train you in official Microsoft certifications (**PL-900 or AZ-900**). These certifications attest to a certain level of expertise in Azure, the collection of cloud computing products and services, and in Power BI, Microsoft's business intelligence tool. The registration fee for the official exam is included in the course price.



University Paris 1 - Panthéon Sorbonne

Academic partner



ALUMNI TESTIMONIES



Chawki BOUDERBALA

Consultant BI / Data Analyst

"The DataScientest training course has enabled me to consolidate my skills in Power BI. The course is suitable for everyone, as it is both an introduction for beginners and for more experienced users who want to deepen their knowledge."

Thomas C.

"I took the Power BI PL 300 training course in November 2022 over 3 days. The training is very comprehensive and very didactic. The training materials are comprehensive and of good quality. The distance learning format works perfectly and the training logistics are very well organised and responsive. In short, I highly recommend this organisation and I will definitely be signing up for other DataScientest training courses in the future."

Chloé

"Good written support for acquiring knowledge, a good pace and good advice given by the coach/consultant duo."

Angélique

"A training that gets straight to the point, very well constructed and a good dynamic. We really felt the instructors' desire to constantly improve our skills, and they were very good at listening to participants."



CUSTOMER CARE

Customer Care

The Customer Care team is made up of **technical advisors** and program managers who work together to provide supervised **support** to each class. The technical side of the training is managed by the technical advisors, while the human side is taken care of by the programme managers.

The classes and learners are **monitored individually** to help them achieve their diploma. To this end, we organize training **follow-up interviews** which emphasize the human dimension and allow us to adapt the rules in the event of personal complications. We also offer **advices** on how to manage time and improve the way you learn throughout the course. **Events** are also organized to strengthen group cohesion and avoid the isolation of distance learners.

We are attentive to the comments of our users to continue to improve our training programmes through satisfaction questionnaires. In addition, there are profiles dedicated to supporting and dealing with each learner's questions.



"Caring for our learners is our main goal. We make sure that their training goes well through individual follow-up, advice and an attentive ear to the needs of each individual."

Pauline Messenger

Head of Customer Care Service @DataScientest





**WOULD YOU LIKE TO
LEARN MORE ABOUT
POWER BI?**



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