SYLLABUS POWER BI

Learn how to design dashboards

DataScientest

SUMMARY

Human

Since its creation in 2016, DataScientest's goal is to allow anyone to **acquire new skills** in a constantly evolving field.

We have always focused our method on the **follow-through** we lead with our learners. Our support for students is comprehensive: we help them choose their course, provide them with tailor-made pedagogical support, and support them until they graduate. Our **Career Management** department, dedicated to professional integration, assists learners starting from their first day of training and **guides** them until they find the job that suits them.

Innovative

Through ongoing work with partner companies and individuals, we offer programmes that are constantly adapted to the needs of the market in order to **guarantee successful integration into the workforce** and a **level of skills that exceeds employers' expectations**. Therefore, DataScientest regularly releases new training courses, new specialized programs and Cloud certifications, particularly on AWS and Azure.

In addition to creating new courses, DataScientest always keeps in mind its primary goal: to allow learners **to acquire new skills and experiences** regardless of their academic or professional background. This is why we offer our courses in four different formats:

- Bootcamp (intensive training)
- Part-time (continuous training)
- Apprenticeship (3 weeks working in a company, 1 week studying)
- The IOPE (Individual Operational Preparation for Employment)

International

Since its launch, DataScientest has trained more than **8,000** students and has continued to develop, in particular with the creation of two new subsidiaries dedicated to cybersecurity and the tech industry: **CyberUniversity** and **DevUniversity**.

On the strength of our success in France and after having launched into other fields of training, we responded to a new challenge: **exporting our training courses around the world**. DataScientest is now present in **Germany**, **Spain**, **Canada** and soon in other regions of the world.

The aim of this growth is, in addition to offering our know-how to the four corners of the globe, to create a **global community** of learners and companies. Thus allowing us to **diversify** and **continue improving** our pedagogical approach suiting all profiles and meeting all the needs in terms of tech skills.

DATASCIENTEST IN NUMBERS

+35 CAC40 groups trained

+10k Alumni

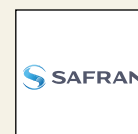**+3k** Hours of **content**

Key figures of the training in 2022

95,3% **Satisfaction** rate

660 Number of **applicants**

They trust us

GROUPE ADP | Allianz | arianeGroup | GROUPE BPCE | BCG | BNP PARIBAS CARDIF | Capgemini | CA | edF

ENEDIS L'ELECTRICITE EN RESEAU | eramet | malakoff humanis | MICHELIN | orange | SAFRAN | SPIE | STELLANTIS | TotalEnergies
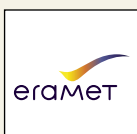
OUR PARTNERS

DataScientest has developed partnerships with world-renowned institutions. On the one hand, with academic institutions such as the Ecole des Mines de Paris and on the other hand, with software publishers such as AWS or Microsoft. These partnerships aim to help learners stand out from the crowd when searching for a Job by obtaining certifications that are recognized by companies.

Amazon Web Services
Software Partner

Today, DataScientest enjoys the exclusive status of Amazon Digital Partner. We are therefore authorized by Amazon to train teams on the products and services of the American company. Thanks to this partnership, we have established several training courses that prepare for official AWS certifications. The registration fee for the official exam is included in the price of the training.

Microsoft
Software Partner

DataScientest is a Microsoft Learning Partner, which means that we can train you for official Microsoft certifications. These certifications attest to a level of expertise on Azure, the set of cloud computing products and services, and on Power BI, Microsoft's business intelligence tool. The registration fee for the official exam is included in the price of the training.

Ecole des Mines Paris PSL Executive Education
Academic partner

Ecole des Mines ParisTech - PSL Executive Education is a top-ranking engineering school with one of the most dynamic Data Science academies in Europe. DataScientest is proud to be an official partner, which attests to the quality of our Data Analyst, Data Scientist and Data Engineer courses, which are eligible for official certification by the school.

Qualiopi
Quality criteria

This label recognizes that the processes implemented by the training organization meet the requirements of the national quality reference system for the following categories :
- Training actions
- Apprenticeship training actions

Our trainers

DataScientest's pedagogical team is composed exclusively of internal professors. They are fully dedicated to teaching and researching our various expert courses and curricula.

Our instructors create curricula that are tailored to software vendor certifications and have Microsoft Certified Trainer status. They work to ensure that you are supported throughout your training and that you are ready for your certification.
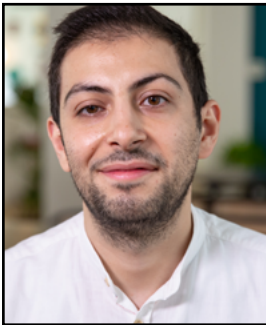
Charles S.
CTO & Academic Manager
8 years of experience

A graduate 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. He has been involved in the development of the courses from day one and ensures the continuous improvement of all our courses with the responsible for each course.

Raphael K.
Pedagogical Director
8 years of experience

Raphael 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.

Meet our team

Jérémy R.

Business Intelligence certification referent

8 years of experience

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

10 years of experience

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.

AWS Certification Referent

2 years of experience

Today, Anthony is an Authorized Instructor at AWS, where he has completed a series of certifications from Solution Architect to Machine Learning. Passionate about the field of Data Sciences, he has mastered the main training courses provided by DataScientest, having passed them all himself (Data Analyst, Data Scientist and Data Engineer). With this experience and thanks to a team of experts, Anthony created the DevOps curriculum and integrated all his knowledge on the cloud.

Professors

During the PBI training, you will be trained by a Microsoft Certified Trainer. He is thus authorized to train you on the Power BI software.

"We quickly realized that DataScientest has the same vision of teaching and learning as Orange, and that it would be a partner that listened to our specificities."

Anne Beaugendre-Frénot
Director, Orange Campus Data IA @Orange

OUR PEDAGOGICAL APPROACH

DataScientest offers 100% distance learning in a hybrid format with a pedagogy based on Learning By Doing.

Hybrid format

During 50% of your time, you are accompanied by your professor and your cohort for **video conferencing sessions**. For the remaining 50%, you work on the Power BI tool through exercises **coached** by our **certified trainers**. No installation is required, you will be able to access the necessary tools via our platform through a virtual machine.

This format allows you to apply the concepts explained directly after the **masterclass** to data and problems that you may encounter in your company. In order to allow you to apprehend the **official PL-300** exam in the best conditions, we propose a MCQ at the end of the course and we regularly update our **mock exams** to better prepare you.

Prerequisites

In order to integrate the «dashboard creation» course, the candidate must master the principles of databases and data processing both locally and in the Cloud.
To integrate the «deepening of the tool» course, the candidate must also master the basic concepts of Power BI (architecture, integration and transformations with Power Query, DAX measures, creation of dashboards, etc.)
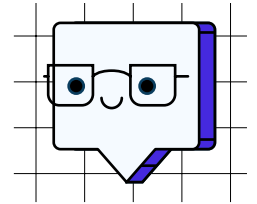All learners must have a computer with a webcam and an internet connection.
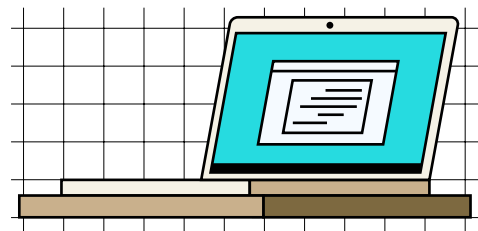
Support and assistance

Every day of the week from 9am to 5pm, all the data expert teachers take turns on a dedicated forum to offer **personalized technical assistance** to you. Numerous question-and-answer sessions are also organized synchronously with our trainers.

Evaluation methods

Practical work and MCQs are part of the training. The exam for the «Analyzing Data with Microsoft Power BI» RS5445 certification is taken online. It is supervised by Pearson VUE. The online assessment includes a variety of questions and a buildable lab.

An evaluation system has also been set up throughout your training process. From your first meeting with a DataScientest consultant, we gather **your expectations and needs** before registration. Your knowledge is evaluated through exams at the end of each module. Finally, through a **satisfaction questionnaire**, we collect your feelings and appreciations about the training.

Certification training: state recognition

The validation of the assessments will allow the candidates to validate the certification «Analyze data with Microsoft Power BI» recognized by the State (registered in the RS under the code RS5445).

Learn more

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 conception

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 will 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

Time	Day 1	Day 2	Day 3
9:00	Welcome	Welcome	Welcome
9:30	MC: Introduction to BI and Power BI	MC : Modelling	MC: Power BI Service & Roles
10:30			
11:00	PW : Connection to data sources	PW : Modelling	PW: Dataviz and Power BI Service
11:30		MC : PW correction	MC: PW Correction
12:00	Lunch	Lunch	Lunch
13:00	MC : Introduction to Power Query	MC : DAX Language	Project
14:00	PW: Power Query	PW : DAX Language	
15:00	MC: Advanced Power Query	MC: Dataviz	
15:30	PW: Advanced Power Query	PW: Dataviz	MCQ
16:30	Review of the day	Review of the day	Review of the day
17:00			

Power BI - Deepening the tool
duration 14h

Time	Day 1	Day 2
9:00	Welcome	Welcome
9:30	MC : Advanced Power Query M	MC : Incremental Refresh
10:00		PW : Incremental Refresh
11:00	PW : Advanced Power Query M	MC: MCQ
11:30	MC : PW correction	
12:00	Lunch	Lunch
13:00	MC: Dax Avancé	MC: Dataviz Advanced & Streaming Dataset
14:00	MC : Advanced DAX	PW : Dataviz Advanced & Streaming Dataset
15:00	MC : DataFlows & Pipeline	MC: Exam preparation
15:30	PW : DataFlows & Pipeline	
16:00	MCQ	
16:30	Review of the day	Review of the day
17:00		

Legend:
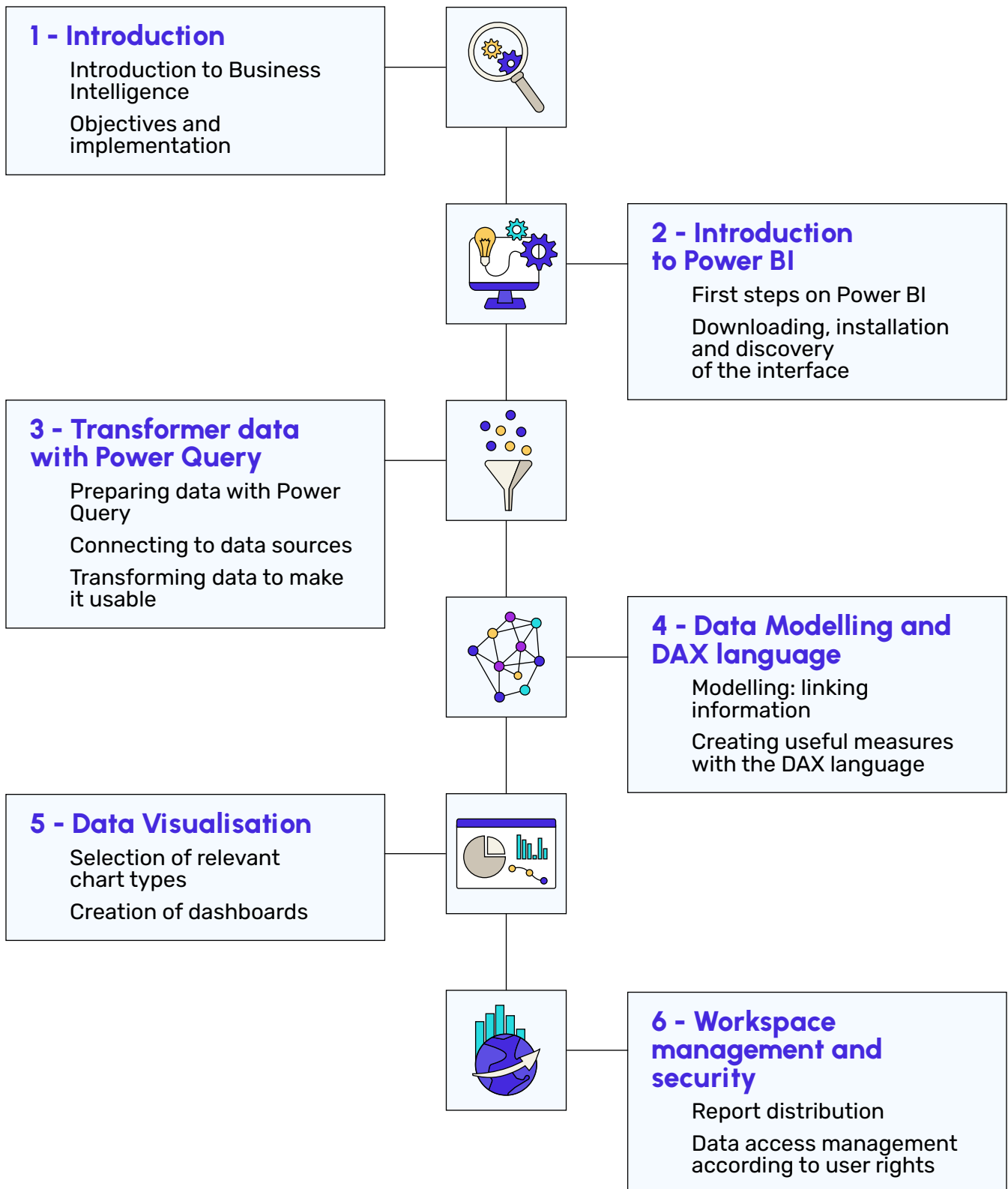- Synchronous (video with teacher)
- Practical work (coached)
- Projects and MCQs (coached)
- Other

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 - Transformer 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
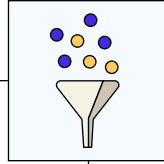
Data access management according to user rights

Learn more
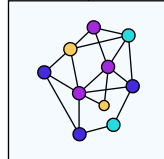
Power BI - Deepening the tool

1 - Advanced Power Query

Power Query M

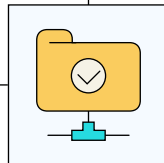Use of advanced functions and features

2 - Advanced DAX

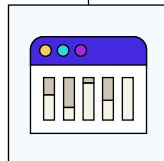Creating measures with DAX

Date management with DAX

3 - Dataflow and pipeline

Preparing data with dataflow

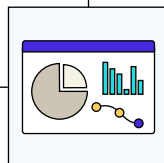Creating pipelines between workspaces

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

Learn more

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 Messager
Head of Customer Care Service @DataScientest

Chawki BOUDERBALA

BI Consultant / Data Analyst

"The datascientest training course has helped me 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 wish to deepen their knowledge."

Thomas C.

"I took the Power BI PL 300 training in November 2022 over 3 days. The training is very complete and very didactic. The materials are very complete and of good quality. The distance learning format works perfectly, the training logistics are very well organized and very responsive. In short, I highly recommend this organization and I will definitely sign up for other Datascientest courses in the future."

Chloé

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

Angélique

"Training that goes to the heart of the matter, very well constructed, dynamic. We really feel the desire of the facilitators to always do better, very attentive to the participants."

Jonathan

"A very dynamic course alternating general presentations and immediate practical applications, all accompanied by a superresponsive team."

DataScientest

INTERESTED IN TAKING OUR POWER BI COURSE?

🌐 **datascientest.com**

✉ **contact@datascientest.com**

📞 **+33 9 80 80 79 49**