

# Power BI Data Analyste

Référence : MSPL300

Durée : 3 jours

Certification : PL-300

## CONNAISSANCES PREALABLES

- 1-Understanding core data concepts. • 2-Knowledge of working with relational data in the cloud. • 3-Knowledge of working with non-relational data in the cloud. • 4-Knowledge of data analysis and visualization concepts. You can gain the prerequisites and a better understanding of working with data in Azure....

## PROFIL DES STAGIAIRES

- The audience for this course are data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. • This course is also targeted toward those individuals who develop reports that visualize data from the data platform technologies that exist on both in the cloud and on-premises.

## OBJECTIFS

- Ingest, clean, and transform data. • Model data for performance and scalability. • Design and create reports for data analysis. • Apply and perform advanced report analytics. • Manage and share report assets. • Create paginated reports in Power BI.

## CERTIFICATION PREPAREE

- Microsoft Power BI Data Analyst

## METHODES PEDAGOGIQUES

- Mise à disposition d'un poste de travail par stagiaire
- Remise d'une documentation pédagogique papier ou numérique pendant le stage
- La formation est constituée d'apports théoriques, d'exercices pratiques, de réflexions et de retours d'expérience
- Le suivi de cette formation donne lieu à la signature d'une feuille d'émergence

## FORMATEUR

Consultant-Formateur expert Power Platform

## METHODE D'EVALUATION DES ACQUIS

- Auto-évaluation des acquis par le stagiaire via un questionnaire
- Attestation de fin de stage adressée avec la facture

## CONTENU DU COURS

### Get Started with Microsoft Data Analytics

- Data Analytics and Microsoft
- Getting Started with Power BI
- Lab : Getting Started in Power BI Desktop
- Getting Started

### Prepare Data in Power BI

- Getting Started
- Lab : Preparing Data in Power BI Desktop
- Prepare Data

### Clean, Transform, and Load Data in Power BI

- Data shaping
- Enhance the data structure
- Data Profiling
- Lab : Transforming and Loading Data in Power BI Desktop
- Loading Data

### Design a Data Model in Power BI

- Introduction to data modeling
- Working with tables

- Dimensions and Hierarchies
- Lab : Data Modeling in Power BI Desktop
- Create Model Relationships
- Configure Tables
- Review the model interface
- Create Quick Measures
- Lab : Advanced Data Modeling in Power BI Desktop
- Configure many-to-many relationships
- Enforce row-level security

### Create Model Calculations using DAX in Power BI

- Introduction to DAX
- DAX context
- Advanced DAX
- Lab : Advanced DAX in Power BI Desktop
- Use the CALCULATE() function to manipulate filter context
- Use Time Intelligence functions
- Lab : Introduction to DAX in Power BI Desktop
- Create calculated tables
- Create calculated columns
- Create measures

### Optimize Model Performance in Power BI

- Optimize the model for performance
- Optimize DirectQuery Models
- Create and manage Aggregations

### Create Reports in Power BI

- Design a report
- Enhance the report
- Lab : Designing a report in Power BI Desktop
- Create a live connection in Power BI Desktop
- Design a report
- Configure visual fields and format properties
- Lab : Enhancing reports with interaction and formatting in Power BI Desktop
- Create and configure Sync Slicers
- Create a drillthrough page
- Apply conditional formatting
- Create and use Bookmarks

### Create Dashboards in Power BI

- Create a Dashboard
- Real-time Dashboards
- Enhance a Dashboard
- Lab : Creating a Dashboard in Power BI Service
- Create a Dashboard
- Pin visuals to a Dashboard
- Configure a Dashboard tile alert
- Use Q&A to create a dashboard tile

### Enhance reports for usability and storytelling in Power BI

- Paginated report overview
- Create Paginated reports
- Lab : Creating a Paginated report in Power BI Desktop
- Use Power BI Report Builder
- Design a multi-page report layout
- Define a data source
- Define a dataset
- Create a report parameter
- Export a report to PDF

### Perform Advanced Analytics in Power BI

- Advanced Analytics
- Data Insights through AI visuals
- Lab : Data Analysis in Power BI Desktop
- Create animated scatter charts
- Use the visual to forecast values
- Work with Decomposition Tree visual
- Work with the Key Influencers visual

### Manage Datasets in Power BI

- Parameters
- Datasets
- Security in Power BI

### Create and Manage Workspaces in Power BI

- Creating Workspaces
- Sharing and Managing Assets
- Lab : Publishing and Sharing Power BI Content
- Map security principals to dataset roles
- Share a dashboard
- Publish an App

### Certification Microsoft Power BI Data Analyst (PL-300)

- Cette formation prépare au passage de la certification Microsoft Power BI Data Analyst