

Course : BigQuery for Data Analysts

Official course, preparation for Google Cloud certifications

Practical course - 2d - 14h00 - Ref. GQA

Price : 1590 € E.T.

NEW

With this training course, you'll learn how to leverage BigQuery, Google Cloud's cloud and serverless data warehouse, to analyze, transform and visualize large volumes of data using SQL. You'll discover how to efficiently import and structure your data, design optimized queries, automate your processing and create relevant visualizations to support decision-making. As a result, you'll develop an operational command of BigQuery in a secure, scalable environment, perfectly adapted to the challenges of modern data analysis.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understand the role and value of BigQuery and its main analysis capabilities.
- ✓ Import, explore and transform data in BigQuery using SQL.
- ✓ Use external sources and develop transformation pipelines with Dataform.
- ✓ Visualize data via Connected Sheets and Looker Studio.
- ✓ Make the most of BigQuery Studio's advanced integrations and features.

Intended audience

Data analysts wishing to master BigQuery for their data analysis needs.

Prerequisites

Completion of the course "Introduction to Data Analytics on Google Cloud" or equivalent knowledge.

Certification

This course prepares you for Google Cloud certifications.

[Comment passer votre examen ?](#)

PARTICIPANTS

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TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

1 Discover BigQuery for data analysts

- Analyze data on Google Cloud.
- Learn how to transform data into useful information with BigQuery.
- Real-life use cases from companies transformed by analytics on Google Cloud.

2 Explore and prepare your data with BigQuery

- Common data mining techniques.
- Analyze large datasets with BigQuery.
- Describe the basic principles of queries.
- Analyze the use of functions.
- Enrich queries with UNION and JOIN.

Hands-on work

Exploring an e-commerce dataset with SQL in Google BigQuery. Troubleshoot common SQL errors with BigQuery. Troubleshoot and resolve data join pitfalls.

3 Clean and transform your data

- Analyze the five principles of dataset integrity.
- Clean up and transform data with SQL.
- Overview of other data cleansing and transformation options.

4 Ingestion and storage of new BigQuery datasets

- Describe permanent and temporary data tables.
- Analyze the ingestion of new data sets.
- Study external data sources.

Hands-on work

Creation of new permanent tables Ingestion and interrogation of new data sets.

5 Visualize your BigQuery insights

- Introduction to data visualization.
- The fundamentals of effective visualization.
- Exploit your data with Connected Sheets.
- Avoid common visualization errors.
- Create dynamic dashboards with Looker Studio.
- Analyze your data in a Notebook environment.

Hands-on work

Connected Sheet quick start. Explore and create reports with Looker Studio.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

6 Create scalable data pipelines in BigQuery with Dataform

- Analyze the big picture.
- Discover Dataform.
- Getting started with Dataform.

Hands-on work

Create and run a SQL workflow in Dataform.

7 Discover BigQuery Studio

- Introducing BigQuery Studio.
- Use Duet AI in BigQuery to explain and generate SQL queries.
- Discover new ergonomic features and integrations with Dataform and Dataplex.

Hands-on work

Analyze data using Duet AI. Generate personalized email content with BigQuery and Gemini continuous queries.

Dates and locations

REMOTE CLASS

2026 : 4 June, 17 Sep., 26 Nov.

PARIS LA DÉFENSE

2026 : 4 June, 17 Sep., 26 Nov.