Data Engineering on Google Cloud Platform

Google Cloud Partner

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This four-day, expert-led course provides you with a hands-on introduction to developing and implementing data processing systems on the Google Cloud Platform. Through a mix of presentations, live demos and interactive labs, you will learn how to design data processing systems, create end-to-end data pipelines, analyze data and apply machine learning. The focus is on structured, unstructured and streamed data to give you a comprehensive understanding of modern data processing.

Course Contents

- Introduction to Data Engineering
- Building a Data Lake
- Building a Data Warehouse
- Introduction to Building Batch Data Pipelines
- Executing Spark on Cloud Dataproc
- Serverless Data Processing with Cloud Dataflow
- Manage Data Pipelines with Cloud Data Fusion and Cloud Composer
- Introduction to Processing Streaming Data
- Serverless Messaging with Cloud Pub/Sub
- Cloud Dataflow Streaming Features
- High-Throughput BigQuery and Bigtable Streaming Features
- Advanced BigQuery Functionality and Performance
- Introduction to Analytics and AI
- Prebuilt ML model APIs for Unstructured Data
- Big Data Analytics with Cloud AI Platform Notebooks
- Production ML Pipelines with Kubeflow
- Custom Model building with SQL in BigQuery ML
- Custom Model building with Cloud AutoML

In this course, you will learn the following skills:

- Develop data processing systems on Google Cloud Platform
- Process batch and streaming data by implementing autoscaling data pipelines on Cloud Dataflow
- Derive business insights from extremely large datasets using Google BigQuery
- Train, evaluate, and make predictions with machine learning models using TensorFlow and Cloud ML
- Leverage unstructured data with Spark and ML APIs on Cloud Dataproc
- Enable instant insights from streaming data

Official Google Cloud documentation.

Target Group

This course is specifically designed for experienced developers who are responsible for big data transformations. This includes tasks such as:

- Extracting, loading, transforming, cleansing and validating data.
- Development of pipelines and architectures for data processing.
- Creation and maintenance of models for machine learning and statistics.
- Query data sets, visualize results and create reports.

Prerequisites

- Basic knowledge of common query languages such as SQL
- Knowledge of data modeling, extraction, transformation and loading activities
- Knowledge of developing applications with a common programming language such as Python
- Familiarity with machine learning and/or statistics

This Course in the Web

You can find the up-to-date information and options for ordering under the following link: www.experteach-training.com/go/**GCDE**

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in an non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training		Prices, excl. of V.A.T.
Classes in Germany	**4 Days**	**€ 2,595**
Classes in Austria	**4 Days**	**€ 2,595**
Classes in Switzerland	**4 Days**	
Online Training	**4 Days**	**€ 2,595**

Date/course venue — Course language German

20/01-23/01/26	München	14/07-17/07/26	Online
20/01-23/01/26	Online	29/09-02/10/26	Berlin
10/03-13/03/26	Online	29/09-02/10/26	Hamburg
10/03-13/03/26	Wien	29/09-02/10/26	Online
27/04-30/04/26	Düsseldorf	29/09-02/10/26	Online
27/04-30/04/26	Online	10/11-13/11/26	Online
14/07-17/07/26	Frankfurt	10/11-13/11/26	Zürich

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