# Data Engineering on Google Cloud

**Category:** AI, Data & Analytics | **Vendor:** Google Cloud

**Duration:** 4.00 hours (1 days) **3.3 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** vILT

## Course Overview

Get proficient in extracting business insights from vast datasets with the help of BigQuery . Enroll in Data Engineering on Google Cloud course to design and build secure and effective data processing systems. This is a 4-day course designed for someone who has a basic understanding of Google Cloud's Big Data and ML capabilities, data modelling and ETL processes. Having familiarity with programming languages would be an added advantage to get the best out of this course.

## About This Course

Get proficient in extracting business insights from vast datasets with the help of BigQuery . Enroll in Data Engineering on Google Cloud course to design and build secure and effective data processing systems. This is a 4-day course designed for someone who has a basic understanding of Google Cloud's Big Data and ML capabilities, data modelling and ETL processes. Having familiarity with programming languages would be an added advantage to get the best out of this course.

## Prerequisites & Entry Requirements

**General Prerequisites:**

Completed Google Cloud Fundamentals- Big Data and Machine Learning course OR have equivalent experience, Basic proficiency with common query language such as SQL, Developing applications using a common programming language such Python, Familiarity with Machine Learning and/or statistics, Experience with data modeling, extract, transform, load activities

# Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery ML, and learn to use AutoML to create powerful models without coding, Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery ML, and learn to use AutoML to create powerful models without coding, Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery ML, and learn to use AutoML to create powerful models without coding, Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery ML, and learn to use AutoML to create powerful models without coding, Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery ML, and learn to use AutoML to create powerful models without coding, Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery ML, and learn to use AutoML to create powerful models without coding, Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery ML, and learn to use AutoML to create powerful models without coding, Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery ML, and learn to use AutoML to create powerful models without coding, Course ObjectivesDesign and build data processing systems on Google CloudProcess batch and streaming data by implementing autoscaling data pipelines on DataflowDerive business insights from extremely large datasets using BigQueryLeverage unstructured data using Spark and ML APIs on DataprocEnable instant insights from streaming dataUnderstand ML APIs and BigQuery

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## Detailed Course Outline

Running Dataproc Jobs, Running Dataproc Jobs, Running Dataproc Jobs, Google Cloud Dataproc Overview, Google Cloud Dataproc Overview, Google Cloud Dataproc Overview, Integrating Dataproc with Google Cloud Platform, Integrating Dataproc with Google Cloud Platform, Integrating Dataproc with Google Cloud Platform, Making Sense of Unstructured Data with Google's Machine Learning APIs, Making Sense of Unstructured Data with Google's Machine Learning APIs, Making Sense of Unstructured Data with Google's Machine Learning APIs, Serverless data analysis with BigQuery, Serverless data analysis with BigQuery, Serverless data analysis with BigQuery, Serverless, autoscaling data pipelines with Dataflow, Serverless, autoscaling data pipelines with Dataflow, Serverless, autoscaling data pipelines with Dataflow, Getting started with Machine Learning, Getting started with Machine Learning, Getting started with Machine Learning, Building ML models with Tensorflow, Building ML models with Tensorflow, Building ML models with Tensorflow, Scaling ML models with CloudML, Scaling ML models with CloudML, Scaling ML models with CloudML, Feature Engineering, Feature Engineering, Feature Engineering, Architecture of streaming analytics pipelines, Architecture of streaming analytics pipelines, Architecture of streaming analytics pipelines, Ingesting Variable Volumes, Ingesting Variable Volumes, Ingesting Variable Volumes, Streaming analytics and dashboards, Streaming analytics and dashboards, Streaming analytics and dashboards, Implementing streaming pipelines, Implementing streaming pipelines, Implementing streaming pipelines, High throughput and low-latency with Bigtable, High throughput and low-latency with Bigtable, High throughput and low-latency with Bigtable, Introduction to Data Engineering, Introduction to Data Engineering, Introduction to Data Engineering, Building a Data Lake, Building a Data Lake, Building a Data Lake, Building a Data Warehouse, Building a Data Warehouse, Building a Data Warehouse, Introduction to Building Batch Data Pipelines, Introduction to Building Batch Data Pipelines, Introduction to Building Batch Data Pipelines, Executing Spark on Dataproc, Executing Spark on Dataproc, Executing Spark on Dataproc, Serverless Data Processing with Dataflow, Serverless Data Processing with Dataflow, Serverless Data Processing with Dataflow, Manage Data Pipelines with Cloud Data Fusion and Cloud Composer, Manage Data Pipelines with Cloud Data Fusion and Cloud Composer, Manage Data Pipelines with Cloud Data Fusion and Cloud Composer, Introduction to Processing Streaming Data, Introduction to Processing Streaming Data, Introduction to Processing Streaming Data, Serverless Messaging with Pub/Sub, Serverless Messaging with Pub/Sub, Serverless Messaging with Pub/Sub, Dataflow Streaming Features, Dataflow Streaming Features, Dataflow Streaming Features, High-Throughput BigQuery and Bigtable Streaming Features, High-Throughput

BigQuery and Bigtable Streaming Features, High-Throughput BigQuery and Bigtable Streaming Features, Advanced BigQuery Functionality and Performance, Advanced BigQuery Functionality and Performance, Advanced BigQuery Functionality and Performance, Introduction to Analytics and AI, Introduction to Analytics and AI, Introduction to Analytics and AI, Prebuilt ML Model APIs for Unstructured Data, Prebuilt ML Model APIs for Unstructured Data, Prebuilt ML Model APIs for Unstructured Data, Big Data Analytics with Notebooks, Big Data Analytics with Notebooks, Big Data Analytics with Notebooks, Production ML Pipelines, Production ML Pipelines, Production ML Pipelines, Custom Model Building with SQL in BigQuery ML, Custom Model Building with SQL in BigQuery ML, Custom Model Building with SQL in BigQuery ML, Custom Model Building with AutoML, Custom Model Building with AutoML, Custom Model Building with AutoML, Custom Model Building with AutoML, Custom Model Building with AutoML, Custom Model Building with AutoML

# Frequently Asked Questions

### Q: What delivery options are available for Data Engineering on Google Cloud?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: How many CPD hours does this course provide?

The 1-day Data Engineering on Google Cloud course provides up to 3.3 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the Data Engineering on Google Cloud training?

The training takes place over 1 day(s), with each day lasting approximately 4.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for Data Engineering on Google Cloud?

Yes, we provide corporate training, dedicated training, and closed classes for Data Engineering on Google Cloud. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: What related terms do people search for?

Popular related searches include: Data Engineering on Google Cloud, Google Cloud, vILT

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### Q: Why choose Nexus Human for Data Engineering on Google Cloud?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Data Engineering on Google Cloud training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

**Professional Training & Development**

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