

# Google Cloud BigQuery for Data Analyst

## Course Overview

A Data Analyst gathers and analyzes data to identify trends and develops valuable insights to help solve problems. This learning path guides you through a curated collection of concepts and labs that provide you with real-world, hands-on experience using Google Cloud technologies essential to the Data Analyst role.

**Duration:** 5 days / 40 hours

**Level:** Associate

**Prerequisites:** None

**Course Outcome:** Learner will be prepared to work as Data Analyst using BigQuery and Looker Studio on Google Cloud Platform.

## Table of Content

### Introduction to Data Analytics on Google Cloud

- Understand the Data Analytics Lifecycle on Google Cloud
- Explore Data and Extract Insights Using BigQuery
- Make Data-driven Decisions Using Looker

### BigQuery for Data Analysts

- BigQuery for Data Analysts
- Exploring and Preparing Your Data with BigQuery
- Cleaning and Transforming Your Data
- Ingesting and Storing New BigQuery Datasets
- Visualizing Your Insights from BigQuery
- Developing Scalable Data Transformation Pipelines in BigQuery with Dataform
- BigQuery Studio

## **Prepare Data for Looker Dashboards and Reports**

- Looker Data Explorer – Qwik Start
- Filtering and Sorting Data in Looker
- Merging Results from Different Explores in Looker
- Looker Functions and Operators
- Prepare Data for Looker Dashboards and Reports: Challenge Lab

## **Analyzing and Visualizing Data in Looker**

- Overview of Looker platform and interface
- Dimensions, measures, and filters in data analysis
- Using and filtering Looks and dashboards
- Pivoting data and creating table calculations
- Writing and applying offset functions
- Building and customizing Looks and dashboards
- Sharing and scheduling reports with alerts