



Consulting and Training | Reach New Heights

Course Name

Google Cloud Professional Database Engineer

Sector Name

Information Technology

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Google Cloud Professional Database Engineer

Course Introduction

In today's cloud-first business environment, organisations require professionals capable of designing, managing, and optimizing databases on cloud platforms. The Google Cloud Professional Database Engineer training program equips IT and data professionals with the skills needed to build high-performance, scalable, and secure database solutions on Google Cloud.

Participants will learn how to design cloud-native databases, implement data storage and retrieval strategies, and optimize query performance. The course emphasizes practical skills in SQL, database replication, backup strategies, disaster recovery, and data security while aligning with Google Cloud best practices.

This corporate training program also covers advanced topics such as database performance monitoring, high-availability architecture, cloud migration, and integration with other Google Cloud services. By mastering these skills, database engineers can help organisations improve data reliability, accessibility, and operational efficiency in cloud environments.

Through hands-on labs, real-world scenarios, and project-based exercises, participants gain the expertise to manage large-scale cloud databases, ensure data integrity, and implement robust security policies, enabling businesses to leverage cloud data solutions for strategic decision-making and long-term growth

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Target Audience

- ✓ Cloud Engineers and Solutions Architects who need to design and implement scalable, secure, and high-performing cloud database systems.
- ✓ Developers and Software Engineers working with data-intensive applications who want to deepen their understanding of GCP's database offerings.
- ✓ IT Professionals aiming to upskill in cloud technologies, particularly within the Google Cloud ecosystem.
- ✓ DevOps Engineers focused on automating database provisioning, monitoring, and performance tuning in the cloud.
- ✓ Data Engineers who manage large-scale structured and unstructured data and require reliable, scalable storage options.
- ✓ Tech Leads and System Architects responsible for choosing and optimizing database solutions to support enterprise-scale applications.
- ✓ Certification Seekers preparing for the Google Cloud Professional Database Engineer certification.

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Learning Objectives

- ✓ Understand cloud architecture and resource access on Google Cloud.
- ✓ Create and manage Cloud SQL instances with multiple connection methods and security configurations.
- ✓ Perform backup, restore, migration, replication, and failover operations.
- ✓ Work with distributed databases such as Cloud Spanner and AlloyDB for PostgreSQL.
- ✓ Explore NoSQL databases like Firestore, Datastore, and BigTable.
- ✓ Set up and manage in-memory caching solutions using Memorystore (Redis and Memcached).
- ✓ Migrate databases from on-premises to Google Cloud.
- ✓ Analyze pricing models and manage cloud database costs effectively.

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Course Outline

✓ DAY 01

Module 1: Cloud Fundamentals

- ✓ Resources and Access in Google Cloud
- ✓ Virtual Machines and Networking in the Cloud
- ✓ Cloud Storage Services
- ✓ Containers in Google Cloud
- ✓ Application Hosting in the Cloud

Module 2: Cloud SQL

- ✓ Introduction to Cloud SQL
- ✓ [Hands-on] Create and Explore Cloud SQL Instances
- ✓ [Hands-on] Connect using:
 - ✓ Public IP
 - ✓ Private IP
 - ✓ Cloud SQL Auth Proxy
 - ✓ SSL
 - ✓ IAM (Service Account)
- ✓ [Hands-on] Add SQL Users
- ✓ [Hands-on] Migrate On-premises Databases to Cloud SQL
- ✓ [Hands-on] Backup & Restore, Zonal & Regional Failover
- ✓ [Hands-on] Export Database, Create Read Replica
- ✓ [Hands-on] Perform Instance Operations

- ✓ [Hands-on] Manage IAM Roles
- ✓ [Hands-on] Interact via gcloud CLI
- ✓ [Hands-on] Cloud SQL Pricing Overview

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Course Outline

✓ Day 02

Module 3: Google Cloud Spanner

- ✓ Introduction to Cloud Spanner
- ✓ Spanner Best Practices: Avoiding Hotspots
- ✓ [Hands-on] Cloud Spanner Projects (Parts 1-4)
- ✓ [Hands-on] Working with Spanner CLI

Module 4: AlloyDB for PostgreSQL

- ✓ Overview of AlloyDB
- ✓ [Hands-on] Create and Connect to AlloyDB Instances
- ✓ [Hands-on] Analyze AlloyDB Pricing

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Course Outline

✓ Day 03

Module 5: Cloud Datastore & Firestore (NoSQL)

- ✓ NoSQL on Google Cloud: Key Concepts
- ✓ Introduction to Cloud Datastore
- ✓ [Hands-on] Datastore Labs (Parts 1-6)
- ✓ [Hands-on] Firestore Labs
- ✓ [Hands-on] Datastore/Firestore Pricing Overview
- ✓ [Hands-on] Datastore & Firestore via CLI

Module 6: Cloud BigTable

- ✓ Introduction to BigTable
- ✓ [Hands-on] BigTable Labs (Parts 1-3)
- ✓ [Hands-on] BigTable CLI Integration
- ✓ [Hands-on] BigTable Pricing

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Course Outline

✓ Day 04

Module 7: Cloud Memorystore (Redis & Memcached)

- ✓ Introduction to Memorystore
- ✓ [Hands-on] Redis Labs (Parts 1-4)
- ✓ [Hands-on] Memcached Lab
- ✓ [Hands-on] Use Memorystore from CLI

Module 8: Database Migration

- ✓ [Hands-on] Database Migration Labs (Parts 1-3)
- ✓ Migration from On-premises to Google Cloud SQL or Spanner
- ✓ Best Practices and Tools for Cloud Database Migration

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 24, 2026	Aug. 27, 2026	4 days	4950.00 \$	Spain , Madrid
April 4, 2027	April 7, 2027	4 days	4250.00 \$	KSA , Riyadh
June 15, 2026	June 18, 2026	4 days	4250.00 \$	UAE , Dubai
Nov. 16, 2026	Nov. 19, 2026	4 days	4250.00 \$	UAE , Dubai

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