Consulting and Training | Reach New Heights

**Course Name**

# Google Cloud Professional Database Engineer

**Sector Name**

Information Technology

**Document Type**

Generated by Boostlab

Click Here To Visit Course

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Consulting and Training | Reach New Heights

## 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

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Click Here To Visit Course

Consulting and Training | Reach New Heights

## Google Cloud Professional Database Engineer

# 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.

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Click Here To Visit Course

BOOST
Consulting and Training | Reach New Heights

# Google Cloud Professional Database Engineer

## 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.

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Click Here To Visit Course

BOOST
Consulting and Training | Reach New Heights

# Google Cloud Professional Database Engineer

## 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

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Click Here To vist Course

BOOST

BOOST
Consulting and Training | Reach New Heights

# Google Cloud Professional Database Engineer

## 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

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Click Here To vist Course

Consulting and Training | Reach New Heights

## Google Cloud Professional Database Engineer

# 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

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Click Here To vist Course

Consulting and Training | Reach New Heights

# Google Cloud Professional Database Engineer

## 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

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Click Here To vist Course

BOOST
Consulting and Training | Reach New Heights

# Google Cloud Professional Database Engineer

## Confirmed Sessions

| FROM | TO | DURATION | FEES | LOCATION |
|---|---|---|---|---|
| Aug. 30, 2027 | Sept. 2, 2027 | 4 days | 4950.00 $ | Spain , Madrid |
| April 4, 2027 | April 7, 2027 | 4 days | 4250.00 $ | KSA , Riyadh |
| June 21, 2027 | June 24, 2027 | 4 days | 4250.00 $ | UAE , Dubai |
| Nov. 16, 2026 | Nov. 19, 2026 | 4 days | 4250.00 $ | UAE , Dubai |

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

Click Here To vist Course

info@boostuae.com info@boostorg.com