

# Architecting with Google Cloud: Design and Process

## COURSE OVERVIEW

The course equips you to build highly reliable and efficient solutions on Google Cloud Platform. It is a continuation of the Architecting with Google Cloud Platform: Infrastructure course and assumes hands-on experience with the technologies covered in that course. Through a combination of presentations, demos, and hands-on labs, you will learn to design GCP deployments that are highly reliable and secure; and how to operate GCP deployments in a highly available and cost-effective manner. Learn to design GCP deployments.

## WHO SHOULD ATTEND?

This course is ideal for cloud solutions architects, systems operations professionals, DevOps engineers, IT managers, and individuals using Google Cloud Platform to create new solutions or integrate existing systems, application environments, and infrastructure with the Google Cloud Platform. This course is designed for professionals who want to deepen their understanding of designing and managing scalable, reliable, and secure cloud-based solutions on Google Cloud.

## COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Design for high availability, scalability, and maintainability
- Assess tradeoffs and make sound choices among Google Cloud Platform products
- Integrate on-premises and cloud resources
- Identify ways to optimize resources and minimize cost
- Minimize downtime with monitoring, testing, resilience checks, and incident analysis.
- Reduce security risks with auditing, separation of duties, and least privilege.
- Ensure business continuity with disaster recovery technologies and processes.

## KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Google Cloud architecture and design principles.
- Google Cloud services for compute, storage, networking, and databases.
- Exploring best practices for designing scalable, secure, and reliable systems on Google Cloud.
- Implementing cloud-native architectures using Google Cloud tools and services.
- Developing strategies for managing and optimizing cloud infrastructure.
- Leveraging Google Cloud for disaster recovery, high availability, and fault tolerance.
- Learning about security and compliance considerations in Google Cloud environments.
- Exploring Google Cloud's cost management tools and best practices for cost optimization.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded