



# Google Cloud Certification Training

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## About the Program

Intellipaate's Google Cloud certification training online classes will help you clear the Google Professional Cloud Architect certification exam. This training will give you hands-on experience in Google Cloud services, such as storage, computing, database, networking, and security. Upon the completion of the Google Cloud Platform training, you will be able to design and deploy scalable Google Cloud solutions for enterprises.

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## About Intellipaate

Intellipaate is one of the leading e-learning training providers with more than 600,000 learners across 55+ countries. We are on a mission to democratize education as we believe that everyone has the right to quality education.

Our courses are delivered by subject matter experts from top MNCs, and our world-class pedagogy enables learners to quickly learn difficult topics in no time. Our 24/7 technical support and career services will help them jump-start their careers in their dream companies.

# Key Features



**24 HRS INSTRUCTOR-LED  
TRAINING**



**24 HRS SELF-PACED TRAINING**



**48 HRS REAL-TIME  
PROJECT WORK**



**LIFETIME ACCESS**



**24/7 TECHNICAL SUPPORT**



**INDUSTRY-RECOGNIZED  
CERTIFICATION**



**JOB ASSISTANCE THROUGH  
80+ CORPORATE TIE-UPS**



**FLEXIBLE SCHEDULING**



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# Career Support



## **SESSIONS WITH INDUSTRY MENTORS**

Attend sessions from top industry experts and get guidance on how to boost your career growth



## **MOCK INTERVIEWS**

Mock interviews to make you prepare for cracking interviews by top employers



## **GUARANTEED INTERVIEWS & JOB SUPPORT**

Get interviewed by our 400+ hiring partners



## **RESUME PREPARATION**

Get assistance in creating a world-class resume from our career services team



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## Why take up this course?

Google Cloud is among the top three Cloud Computing services in the world today. Thanks to the sheer dominance of Google in the Internet space, the cloud services offered by Google are going to expand in leaps and bounds in the near future. All this is going to create a huge number of job opportunities in the Google Cloud domain. Intellipaat's Google Cloud Architect program is created to give you a complete hands-on experience to work in Google Cloud, thus helping you land the best jobs in the cloud domain.

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## Who should take up this course?

IT Professionals, Software Developers, Administrators, those looking to deploy SaaS, PaaS, and IaaS solutions, Systems and Network Administrators, and Project Managers

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# Program Curriculum

## Google Cloud Course Content

### **1. INTRODUCTION TO GOOGLE CLOUD**

- 1.1 Understanding the fundamentals of Google Cloud Platform
- 1.2 The Google global infrastructure
- 1.3 Products for storage, compute, networking, Machine Learning, and more
- 1.4 Availability zones
- 1.5 Different projects running on the GCP infrastructure, including Google projects

### **2. GOOGLE CLOUD SERVICES**

- 2.1 Introduction to Google Cloud services
- 2.2 Managing Google services using command-line tools, app, and console
- 2.3 Installing and configuring SDK
- 2.4 Deploying Cloud Shell for GCP environment management
- 2.5 Deploying Gsutil

### **3. GOOGLE COMPUTING SERVICES**

- 3.1 Understanding Google computing services
- 3.2 Creating and managing virtual machines in Google Cloud
- 3.3 Launching VMs on-demand using Google Compute Engine
- 3.4 Choosing the right computing solutions based on the workload like memory or CPU
- 3.5 Important actions with Compute Engine
- 3.6 Balancing the load

### **4. GOOGLE STORAGE SERVICES**

- 4.1 Various storage services offered by Google Cloud
- 4.2 The process of storing and retrieving data
- 4.3 Rich content management
- 4.4 Hosting a website
- 4.5 Choosing the right storage options
- 4.6 Integrating on-premises with the cloud storage environment

- 4.7 Nearline and Coldline storage
- 4.8 Cloud Datastore
- 4.9 Managing cloud storage using Gsutil

## **5. GOOGLE CLOUD APIS**

- 5.1 Deploying Google Cloud for developing applications and for debugging and monitoring purposes
- 5.2 Choosing the right data storage for application data
- 5.3 Automating infrastructure
- 5.4 Managing the API
- 5.5 Cloud source
- 5.6 Functions and special APIs
- 5.7 Implementing and configuring Cloud Launcher and Deployment Manager
- 5.8 Application deployment using Cloud Engine

## **6. GOOGLE NETWORKING SERVICES**

- 6.1 Introduction to Google networking
- 6.2 Setting up the Google network
- 6.3 Connecting various Google Cloud Platform resources
- 6.4 Isolation using firewalls and network policies
- 6.5 Creating and managing virtual private network
- 6.6 Working with cloud routers and interconnecting networks

## **7. IAM & SECURITY SERVICES**

- 7.1 Different security and identity and access management (IAM) services
- 7.2 Various roles in IAM
- 7.3 Creating and managing Google resource permissions
- 7.4 IAM APIs
- 7.5 The creation of custom roles
- 7.6 Sharing resources and isolation
- 7.7 Deploying penetration testing, auditing, and security controls

## **8. MIGRATING TO GOOGLE CLOUD**

- 8.1 Understanding how to migrate to Google Cloud
- 8.2 Various criteria to be considered



- 8.3 Choosing the right options as per the specific needs
- 8.4 Managing a hybrid cloud model
- 8.5 Complete migration from the on-premises model to the cloud
- 8.6 Choosing an automation framework for resource provisioning

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## Project Work

### Google Cloud Projects

#### **Project 01:** Deploying a Multi-tier Website on Google Cloud Platform

**Problem Statement:** Deploy a custom PHP website to Google Cloud Platform with functionalities for SQL and file storage

**Highlights:**

- 1.1 Configuring Google Cloud Platform to send emails for every operation using the website
- 1.2 Deploying the web application in private subnet with no Internet access
- 1.3 Using Load Balancer to expose the application in the private subnet
- 1.4 Using the database for metadata storage

#### **Project 02:** Deploying a Website for High Availability and High Resilience

**Problem Statement:** Design an architecture that can automatically scale up and down based on traffic and is de-coupled for components such as database, webapp, etc.

**Highlights:**

- 2.1 Designing architectures that are self-healing and auto-scaling
- 2.2 Load balancing across multiple instances using Load Balancer
- 2.3 Deploying Google Cloud Platform and managing cloud storage using Gsutil

# Certification

After the completion of the course, you will get a certificate from IntelliPaat.



## CERTIFICATE OF COMPLETION

This certificate is awarded to

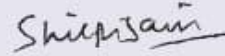
Your Name

Who has successfully completed

**Course Name**

Fulfilling all the requirements stipulated by IntelliPaat to achieve professional excellence.

Issued Date: Month XX, XXXX



Mrs. Shilpi Jain  
Director,  
intellipaate Software Solutions Pvt. Ltd.

VERIFIED  
CERTIFICATE

Certificate ID #94658291

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## Success Stories



### **Kevin K Wada**

Thank you very much for your top-class service. A special mention should be made for your patience in listening to my queries and giving me a solution, which was exactly what I was looking for. I am giving you a 10 on 10!



### **Sampson Basoah**

The Intellipaate team helped me in selecting the perfect course that suits my profile. The whole course was practically oriented, and the trainers were always ready to answer any question. I found this course to be impactful. Thank you.



### **Matt Peter**

I used to practice on my own whenever I had free time. If I had any doubts regarding the technicalities of Google Cloud, I contacted Intellipaate's support team, and their response was quick and to the point. They always resolved my queries instantly.



### **Sugandha Sinha**

Intellipaate's course instructors were excellent and well-versed with their concepts. The support team solved all my queries within the promised 24 hours. They explained all topics and concepts well, and the course material was updated and included videos, exercises, etc. I would highly recommend Intellipaate to those who wish to excel in the IT field.

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# CONTACT US

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If you have any further queries or just want to have a conversation with us, then do call us.

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