



# Technical Guftgu

(Established under Ministry of Micro, Small and Medium Enterprises, Govt. of India)

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Website: [www.technicalguftgu.in](http://www.technicalguftgu.in)

- ✓ Certificate provided
- ✓ Recordings Provided
- ✓ In Hindi/Urdu
- ✓ Expert Trainers

## Google Cloud : Basic to Advanced (GCP-PCA)

Pre- requisite – No pre requisite required

### Course Contents:

#### Module 1: Introduction to Google Cloud Platform

1. Google Cloud Platform (GCP) Infrastructure
2. Using GCP  
Lab: Console and Cloud Shell
3. Demo: Projects  
Lab: Infrastructure Preview

#### Module 2: Virtual Networks

- Introduction to Google networking.
- Setting up the Google network.
- Connecting various Google Cloud Platform resources.
- Isolation using firewalls and network policies.
- Creating and managing of Virtual Private Network.
- Working with cloud routers and interconnecting networks.
- Bastion Host

#### Module 3: Virtual Machines

1. Compute options (vCPU and Memory)
2. Images and Snapshots
3. Common Compute Engine actions  
Lab: Working with Virtual Machines using Console and Cloudshell.

#### Module 4: Cloud IAM

1. Organizations, Roles, Members, Service accounts, Cloud IAM best practices
2. Lab: Cloud IAM
3. Creating a Custom Role.
4. Sharing Resources and isolation.
- 5.

#### Module 5: Data Storage Services

1. Cloud Storage  
Lab: Cloud Storage Using Cloudshell
2. Cloud SQL  
Lab: Cloud SQL
3. Cloud Spanner, Cloud Datastore  
Lab: Cloud Datastore

4. Cloud Bigtable
5. Hosting a website

### **Module 6: Resource Management**

1. Cloud Resource Manager, Quotas, Labels, Names, Billing  
Demo: Billing Administration  
Lab: Examining Billing Data with BigQuery.

### **Module 7: Resource Monitoring**

1. Stackdriver, Monitoring
2. Logging, Error Reporting, Tracing, Debugging

### **Module 8: Interconnecting Networks**

### **Module 9: Load Balancing**

- a. Managed Instance Groups, HTTPS load balancing.
- b. Cross-region and content-based load balancing
- c. Network load balancing.

### **Module 10: Autoscaling**

- a. Autoscaling, Policies, Configuration  
Lab: Autoscaling

### **Module 11: Infrastructure Automation with Deployment Manager**

- Deployment Manager, Configuration, Cloud Launcher
- Lab: Deployment Manager

### **Module 12: Managed Services**

- BigQuery
- Elastic Cloud Infrastructure: Containers and Services

### **Module 13: Containers**

- Containers, Kubernetes Engine, Container Registry
- Kubernetes Engine, App Engine, or Containers on Compute Engine?

### **Module 14: Migrating to Google Cloud**

- Understanding how to migrate to Google Cloud
- Various criteria to be considered
- Choosing the right options as per the specific needs
- Managing a hybrid cloud model
- Complete migration from the on-premises model to the cloud
- Choosing an automation framework for resource provisioning.

### **Module 15: Google Cloud APIs**

- Deploying Google Cloud for developing applications and for debugging and monitoring purposes
- Choosing the right data storage for application data
- Automating infrastructure
- Managing the API
- Cloud source

- Functions and special APIs
- Implementing and configuring Cloud Launcher and Deployment Manager
- Application deployment using Cloud Engine

**KEY HIGHLIGHTS OF THIS TRAINING PROGRAM:**

- ✓ *Entire training programme is in Hindi Language for Better understanding.*
- ✓ *Special focus on Non technical and Fresher candidates.*
- ✓ *Resume Preparation for Fresher's and Experienced Both.*
- ✓ *Provides Recording of each live session which you can access from anywhere anytime for One year.*
- ✓ *Interview Cracking tips during live sessions.*
- ✓ *Provide complete notes and books for exam Preparation.*

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