



Technical Guftgu

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

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Website: www.technicalguftgu.in

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

Google Cloud : Associate Cloud Engineer

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

1. Virtual Private Cloud (VPC), Projects, Networks, Subnetworks, IP addresses, Routes, Firewall rules
2. Subnetworks for resource management instead of physical network topology
Lab: Virtual Networking
Lab: Bastion Host

Module 3 Virtual Machines

3. Compute options (vCPU and Memory)
4. Images
5. Common Compute Engine actions
Lab: Working with Virtual Machines

Module 4: Cloud IAM

1. Organizations, Roles, Members, Service accounts, Cloud IAM best practices
2. Lab: Cloud IAM

Module 5: Data Storage Services

1. Cloud Storage
Lab: Cloud Storage
2. Cloud SQL
Lab: Cloud SQL
3. Cloud Spanner, Cloud Datastore
Lab: Cloud Datastore
4. Cloud Bigtable

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, Cross-region and content-based load balancing, 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

- Cloud Dataproc, Cloud Dataflow, BigQuery, Cloud Datalab
- Elastic Cloud Infrastructure: Containers and Services

Module 13: Containers

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