TechnoMaster

Google Cloud Platform

Duration: 20 Hrs (Changeable) | Fees: Individual / Batch

TRAINING BY INDUSTRY EXPERTS

Since 2007, Nestsoft TechnoMaster has been providing training and internships in IT technologies, both online and offline. We have given internships, training, and seminars to more than 25,000 students and achieved more success stories. **We offer 100% placement support through JobsNEAR.in**

ALL IT Courses

- Python Full Courses
- Digital Marketing
- Php/MySQL
- Laravel
- Asp.net MVC
- Flutter
- Android, Java, IOS
- Wordpress
- Software Testing
- Web Design
- Angular JS
- React JS
- CCNA, MCSA
- AWS, GCP, Azure
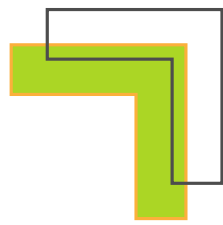- ODOO, Fortinet
- Ethical Hacking

Syllabus Contd..

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Syllabus

Module 1: Overview Cloud & Google Cloud Platform

* Cloud overview & Characteristics

* Cloud Service Model (IAAS, PAAS, SAAS)

* Cloud Deployment Model (Public, Private, Hybrid)

* Google Cloud Plateform (GCP) Infrastructure Overview

* Create GCP Account & Console Overview

* Organizations, Folder, Project, Resource & Billing

* Google Cloud Architecture Framework

Module 2: Virtual Machines

* Compute Engine (VM): Types & Options

* VM Instance Lifecycle & Common Operations

* Machine Types & Compute Options (VCPU And Memory) In Compute Engine

* Images & Snapshots

* Disk Types: Local SSD, Persistent & Balanced

Module 3: Virtual Networks

* Virtual Private Cloud (VPC) & Types, Subnets

* Ip Addresses (Public/Private), Nic

* Routes & Route Table

* Firewalls

* Network Topology Options

Module 4: Cloud IAM

* IAM Basic: Authentication, Authorization & MFA

* Roles, Members, Service Account, Policy

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* Resource Hierarchy

* Cloud IAM Best Practices

Module 5: Data Storage Services

* Google Cloud Storage Overview & Structure

* Storage Classes, Versioning & Lifecycle Policies

* Cloud SQL For Database (MySQL, Postgresql and SQL Server)

* Cloud Spanner: Fully Managed Relational DB

* Cloud Datastore

* Cloud Bigtable: NOSQL Big Data Service

Module 6: App Engine, Functions, Cloud Run

* App Engine: Serverless Web Apps

* App Engine Environments: Standard Vs Flexible

* Cloud Functions: Events & Triggers

* Cloud Run: Serverless Containers

Module 7: Resource Management

* Cloud Resource Manager Overview

* Quotas, Labels, Names & Billing

Module 8: Resource Monitoring

* Stackdriver: Cloud Monitoring & Logging

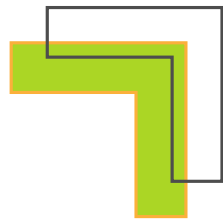* Logging, Error Reporting, Tracing, Debugging

Module 9: Interconnecting Networks

* Virtual Private Network (VPN) & Its Types

✳ VPC Peering (Public & Private)

✳ Cloud DNS, Cloud Interconnect & Cloud Router

Module 10: Load Balancing & Autoscaling

✳ Load Balancing Types: Internal, External, Global & Regional

✳ Https, Network, SSL & TCP Load Balancers

✳ Cross-Region and Content-Based Load Balancing

✳ Autoscaling Policies & Configuration

Module 11: Google Kubernetes Engine

✳ Microservices, Containers, Docker & Kubernetes

Kubernetes and Google Kubernetes Engine (GKE) Understand the Relationship Between

✳ Kubernetes Architecture : Clusters, Node, Node Pools, Pods, Services

✳ Deploy & Manage Workloads on GKE

Module 12: Maintenance & Monitoring

✳ Capacity Planning and Cost Optimization

✳ Deployment, Monitoring and Alerting, And Incident Response

✳ Monitoring and Alerting

Module 13: Cloud Migrations

✳ Understanding Migration Used Cases

✳ Understanding Migration Tools and Process