

Since 2007, Making IT Experts & Products

Course: Google Cloud Platform

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

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

+91 9895490866

+91 8301010866

join@nestsoft.com

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Module 1: Overview Cloud & Google Cloud Platform

- * Cloud overview & Characteristics
- * Cloud Service Model (IAAS, PAAS, SAAS)
- * Cloud Deployment Model (Public, Private, Hybrid)
- * Google Cloud Platform (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

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- * Roles, Members, Service Account, Policy
- * 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

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- * 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
- * GCP Kubernetes Engine (GKE), Understand the Relationship
Between Kubernetes
and Google Kubernetes Engine (GKE)
- * 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

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- Thank You -

N.B:This syllabus is not final and can be customized as per requirements / updates.

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