



VIRAJE
TECH

GCP TERRAFORM



Access to Interview Opportunities with Top Companies



Industry-Relevant Curriculum Designed and Taught by Industry Experts



Hands on Project and Industry Specific Tools



Dedicated Career Support and Interview Preparation



Post Graduate Certificate from Great Lakes Executive Learning



Choosing Google Cloud Platform (GCP) in the IT industry offers a range of benefits. GCP is known for its robust infrastructure, global network, and advanced data analytics capabilities. It stands out with its data and machine learning services, providing cutting-edge tools for AI and analytics projects. Google's expertise in handling massive datasets, coupled with its serverless computing options, makes GCP an attractive choice for organizations focusing on scalability and innovation. Additionally, GCP's commitment to open-source technologies and its emphasis on sustainability align with the values of many modern businesses. With a strong global presence, security measures, and a competitive pricing model, GCP is well-suited for enterprises seeking a reliable and forward-looking cloud platform.





The Program helps you do grow and bloom in Industry and developed by best-in-class industry experts. It offers a blend of online learning with live and recorded lectures along with access to dedicated career support and rewarding job opportunities.

LEARN ONLINE ANYTIME, ANYWHERE

Learn from live masterclasses by top industry leaders and online lab sessions every week, along with 100+ hours of learning content.

WEEKLY ONLINE MENTORSHIP FROM EXPERTS

Get assistance on projects and reinforce the concepts you learn through weekly mentorship sessions.

NETWORK WITH LIKE-MINDED PEERS

Interact with peers from diverse backgrounds and

grow your professional network.

DEDICATED PROGRAM SUPPORT

Access dedicated support on your learning journey and resolve for all your queries with help from a dedicated Program Manager.



A fresh graduate or a working professional looking to up-skill and build a career.



LEARNING PLAN

GCP TERRAFORM

Module 1: Introduction to Google Cloud Platform and Terraform

- 1.1. Overview of GCP and Terraform
- 1.2. Why Use Terraform with GCP?
- 1.3. Setting Up Your Development Environment

Module 2: Terraform Basics

- 2.1. Terraform Installation and Configuration
- 2.2. Understanding Terraform Configuration Files (.tf)
- 2.3. Provisioning Resources with Terraform
- 2.4. Managing State with Terraform

Module 3: GCP Fundamentals

- 3.1. Overview of Google Cloud Platform Services
- 3.2. Creating a GCP Account and Project
- 3.3. Understanding GCP Resource Hierarchy

Module 4: Authenticating Terraform with GCP

4.1. Service Account Setup

4.2. Authentication Methods in Terraform

Module 5: Managing GCP Compute Resources

5.1. Provisioning VM Instances

5.2. Customizing VMs with Machine Types and Images

5.3. Managing Instance Groups and Load Balancers

Module 6: Managing GCP Networking Resources

6.1. VPCs and Subnets

6.2. Firewall Rules

6.3. Cloud Router and VPN Configuration

Module 7: Data Storage in GCP

7.1. Cloud Storage Buckets

7.2. Cloud SQL Databases

7.3. Bigtable and Datastore

Module 8: Infrastructure as Code Best Practices

8.1. Module Organization and Reusability

8.2. Terraform Variables and Outputs

8.3. Terraform Workspaces

Module 9: Managing GCP Services with Terraform

9.1. Configuring IAM and Permissions

9.2. Managing Pub/Sub Topics and Subscriptions

9.3. Creating and Managing Cloud Functions

Module 10: Advanced Terraform and GCP Integration

10.1. Remote State Management

10.2. Terraform Cloud and Workspaces

10.3. Terraform Providers for GCP

Module 11: Infrastructure Testing and Continuous Deployment

11.1. Unit Testing Terraform Code

11.2. Integration Testing with Terratest

11.3. Continuous Deployment Pipelines

Module 12: Security and Compliance

12.1. Security Best Practices in GCP

12.2. Compliance and Auditing

12.3. Terraform Enterprise Security Features

Module13: Monitoring and Debugging

13.1. Monitoring GCP Resources with Stackdriver

13.2. Troubleshooting Terraform Deployments

13.3. Logging and Error Handling

Module 14: Scaling and Optimization

14.1. Auto-scaling Strategies

14.2. Cost Optimization with GCP and Terraform

14.3. Performance Tuning

Module 15: Case Studies and Real-World Projects

15.1. Case Study: Deploying a Multi-tier Web Application

15.2. Case Study: Setting up a Data Analytics Pipeline

15.3. Project: Building a Production-Ready Infrastructure

Module 16: Course Conclusion and Next Steps

16.1. Recap of Key Concepts

16.2. Certifications and Further Learning

16.3. Community and Resources



READY TO ADVANCE YOUR CAREER?

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whatsapp group link -

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