

# Google Cloud Network Engineer

## **Course Overview**

A Network Engineer configures, maintains, and troubleshoots network components of their cloud-based infrastructure. This learning path guides you through a curated collection of concepts and labs that provide you with real-world, hands-on experience using Google Cloud technologies essential to the Network Engineer role.

**Duration:** 05 days / 40 hours

**Level:** Professional

**Prerequisites:** There is no prerequisite for this learning path. Basic knowledge of Linux and Network administration is helpful but not mandatory.

**Course Outcome:** Learner can take **Google Cloud Certified Professional Cloud Network Engineer** exam

## **Table of Content**

### **Google Cloud Fundamentals: Core Infrastructure**

- Introducing Google Cloud
- Resources and Access in the Cloud
- Virtual Machines and Networks in the Cloud
- Storage in the Cloud
- Containers in the Cloud
- Applications in the Cloud
- Prompt Engineering

### **Networking in Google Cloud: Fundamentals**

- Welcome to Networking in Google Cloud
- VPC Networking Fundamentals
- Sharing VPC Networks
- Network Monitoring and Logging

### **Networking in Google Cloud: Routing and Addressing**

- Welcome to Networking in Google Cloud
- Network Routing and Addressing in Google Cloud
- Private Connection Options

## **Logging and Monitoring in Google Cloud**

- Introduction to Google Cloud Operations Suite
- Monitoring Critical Systems
- Alerting Policies
- Advanced Logging and Analysis
- Working with Audit Logs

## **Observability in Google Cloud**

- Configuring Google Cloud Services for Observability
- Monitoring Google Cloud Network
- Investigating Application Performance Issues
- Optimizing the Costs for Google Cloud Observability