



GCP Network Engineer Exam Prep: Cloud Networking Mastery

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Johannesburg



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Course Overview:

"Google Cloud Network Engineer Certification Prep: Master GCP Networking for Success" is a comprehensive 5-day corporate training program meticulously designed to help professionals prepare for the Google Cloud Certified Professional Cloud Network Engineer exam. Built around official content and real-world scenarios, this course covers core topics such as VPC Network Design in GCP, Cloud VPN Dynamic Routing, Cloud NAT, IAM security, and BGP with Cloud Interconnect. Participants will gain hands-on experience through labs and exam-like scenarios while mastering concepts like Google Cloud VPN Training, GCP Load Balancing Course, Network Cost Optimization, and Hybrid Networking in Google Cloud. This GCP Networking Certification Course provides unmatched clarity on GCP Routing and Subnetting Training, Firewall Rules, CDN, IAM, Cloud Armor, and more, empowering learners to become experts in GCP network architecture and security best practices.

Target Audience:

- Cloud Network Engineers
- Cloud Architects
- Network Security Engineers
- Infrastructure Engineers
- IT Professionals transitioning to Google Cloud

Targeted Organizational Departments:

- IT Infrastructure
- Cloud Engineering
- Network Operations
- Information Security
- DevOps Teams

Targeted Industries:

- Cloud Service Providers
- Telecommunications
- Financial Services & Banking
- Healthcare IT
- Government & Defense
- Tech Startups & Enterprises undergoing cloud transformation

Course Offerings:

By the end of this course, participants will be able to:

- Design, implement, and secure GCP Virtual Private Clouds VPCs
- Configure Google Cloud VPNs with high availability and dynamic routing
- Distinguish Cloud Interconnect vs Peering for hybrid networking
- Set up and troubleshoot GCP Load Balancing and CDN
- Use VPC Flow Logs for network performance optimization
- Understand Google Cloud IAM and create role-based access policies
- Implement firewall rules and Cloud Armor for DDoS protection
- Monitor, log, and audit GCP network activities
- Master Cloud Deployment Manager for network configurations

Training Methodology:

This course applies blended learning techniques combining instructor-led sessions with hands-on labs, scenario simulations, and peer collaboration. Learners will engage in daily live practice labs reflecting real GCP configurations like GCP Firewall Rules Course and Cloud VPN Dynamic Routing Tutorial. Group activities such as network design challenges and IAM policy drills ensure knowledge retention. Interactive quizzes, case studies, and certification mock exams provide exam readiness. Throughout the course, instructors will illustrate Google Cloud Network Infrastructure Basics, Cloud Network Services Tier Training, and BGP configurations with examples and visual guides, enabling participants to confidently tackle the certification.

Course Toolbox:

- Printable quick reference cheat sheets
- Sample exam questions and detailed solutions
- Network planning templates for VPC and IAM
- Slides covering Google Cloud Network Hands-On Labs
- Role-based GCP Network Configuration Examples

Course Agenda:

Day 1: Foundations of GCP Networking and Core Concepts

- **Topic 1:** Google Cloud Networking Certification Overview & Key Exam Domains
- **Topic 2:** Introduction to VPC Networks and Custom Subnetting in GCP
- **Topic 3:** IP Address Management and Internal vs External IP Use
- **Topic 4:** Static vs Dynamic Routing and GCP Routing Tables
- **Topic 5:** GCP Firewall Rules: Ingress, Egress, Logging, Prioritization
- **Topic 6:** Google Cloud IAM: Roles, Permissions, and Security Best Practices
- **Reflection & Review:** Networking fundamentals and initial configuration scenarios



Day 2: Secure Connectivity, VPNs, and Hybrid Networking

- **Topic 1:** Deploying Google Cloud VPNs: Classic and HA Models
- **Topic 2:** Configuring BGP and ASN with Dynamic Routing
- **Topic 3:** Understanding Cloud Interconnect vs Peering Scenarios
- **Topic 4:** Configuring Private Google Access and VPC Service Controls
- **Topic 5:** Implementing Cloud NAT for Private Resources
- **Topic 6:** Best Practices for VPC Peering and Shared VPC
- **Reflection & Review:** Building secure and scalable hybrid networks

Day 3: Load Balancing, CDN, DNS, and Traffic Management

- **Topic 1:** Global vs Regional Load Balancing Strategies in GCP
- **Topic 2:** HTTPS, TCP/UDP, and Internal Load Balancing Use Cases
- **Topic 3:** Integrating GCP CDN for Content Distribution and Caching
- **Topic 4:** Deploying and Managing Cloud DNS with DNSSEC
- **Topic 5:** Using Network Service Tiers and Optimizing Traffic Costs
- **Topic 6:** Configuring Cloud Armor for Security Policies and DDoS Defense
- **Reflection & Review:** Efficient and secure global traffic distribution

Day 4: Observability, Cost Optimization, and Identity Control

- **Topic 1:** Network Intelligence Center and Connectivity Troubleshooting Tools
- **Topic 2:** Using VPC Flow Logs and Packet Mirroring for Analysis
- **Topic 3:** Role-Based Access Control for Network Resources
- **Topic 4:** Analyzing and Optimizing GCP Network Costs
- **Topic 5:** Hands-On Troubleshooting for Common GCP Network Issues
- **Topic 6:** Advanced IAM Scenarios and Policy Inheritance
- **Reflection & Review:** Visibility, governance, and cost-effective operations

Day 5: Automation, Kubernetes, and Certification Preparation

- **Topic 1:** Automating Network Deployment with Cloud Deployment Manager
- **Topic 2:** Kubernetes Network Policies and VPC-Native Clusters
- **Topic 3:** Designing Scalable Cloud Network Architectures
- **Topic 4:** GCP Certification Practice Tests and Scenario Walkthroughs
- **Topic 5:** Troubleshooting Mock Exam Questions with Group Review
- **Topic 6:** Final Summary of GCP Network Design Patterns
- **Reflection & Review:** Full course recap, exam strategy, and action plan

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

Participants should have basic experience with networking and familiarity with cloud platforms. Prior exposure to GCP is beneficial but not required.



How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is structured to last around 4-5 hours, totaling approximately 25 hours over five days.

What is the difference between Cloud Interconnect and Cloud Peering in GCP?

Cloud Interconnect provides dedicated private connectivity with higher performance and SLA, while Cloud Peering connects over the public internet using Google's network without SLAs.

How This Course is Different from Other Google Cloud Network Engineer Certification Prep Courses:

Unlike generic courses that only summarize exam guides, this program integrates deep-dive labs, scenario-based practice, and Google Cloud's latest networking tools such as Cloud Armor, VPC Flow Logs, and IAM Policy Management. It's tailored to real-world application—covering critical GCP topics like Google Cloud VPN Training, GCP Load Balancing Course, and Hybrid Networking in Google Cloud. The hands-on approach, role-based exercises, and exam-readiness toolkit ensure learners not only pass the exam but confidently manage cloud networks. With a focus on strategic deployment and performance optimization, this course bridges the gap between certification and professional excellence.

Training Course Categories



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Communication and Public Relations Training Courses



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Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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