



Google Cloud Security Engineer: Exam Prep & Practice Training



AGILE LEADERS
Training Center

Google Cloud Security Engineer: Exam Prep & Practice Training

Course Overview:

The Google Cloud Security Engineer Exam Prep Training Course is an intensive 5-day program designed to prepare professionals for the Google Certified Professional Cloud Security Engineer exam. This course equips participants with the expertise to design and implement secure infrastructure on Google Cloud using industry best practices. Cloud Security Training, and GCP IAM and VPC security certification course, this course is structured around official exam objectives. Participants will gain hands-on exposure to configuring IAM roles, securing networks, protecting sensitive data, and implementing logging, monitoring, and compliance controls—making this course an ideal path for those seeking certification in Google Cloud security.

Target Audience:

- Cloud Security Engineers
- System Administrators
- Security Architects
- DevSecOps Engineers
- GCP Solution Architects
- Network Security Specialists
- IT Infrastructure Managers

Targeted Organizational Departments:

- IT Security
- Cloud Operations
- DevOps and DevSecOps
- Risk and Compliance
- Network and Infrastructure
- Data Governance and Privacy

Targeted Industries:

- Technology and Cloud Services
- Banking and Financial Services
- Healthcare and Pharmaceuticals
- Government and Public Sector
- Telecom and Media
- E-commerce and Retail



Course Offerings:

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

- Configure IAM roles, policies, and resource hierarchies securely
- Secure communications and configure VPC, firewalls, and private connectivity
- Apply advanced data protection techniques CMEK, DLP, Secret Manager
- Secure AI/ML workloads and software supply chains
- Automate threat detection, logging, and incident response
- Map and implement compliance requirements using GCP tools
- Practice real-world scenarios with hands-on lab course for GCP security certification

Training Methodology:

This course combines practical hands-on labs, real-world case studies, guided configuration demos, and interactive group exercises. Participants will engage in configuring VPC Service Controls, IAM policies, and GCP logging and monitoring environments. Training for GCP Cloud Security certification also includes simulation of incident response scenarios. Peer-to-peer review, instructor-led Q&A, and post-session assignments will reinforce learning. The approach balances theory and practice to ensure readiness for the Google Certified Professional Cloud Security Engineer exam prep.

Course Toolbox:

- GCP Practice Labs IAM, VPC, DLP, SCC
- Access to curated reading materials and whitepapers
- Exam prep checklists and study templates
- GCP documentation and command-line tools examples
- Real-world scenarios and configuration blueprints

Note: Tools are provided as reference material and examples, not as software access or licensed tools.

Course Agenda:

Day 1: Identity and Access Management Fundamentals

- Managing Google Cloud Identity and Single Sign-On SSO Topic 1:
- IAM Roles, Policies, and Custom Role Configuration Topic 2:
- Managing and Securing Service Accounts Topic 3:
- Implementing Access Context Manager and IAM Deny Policies Topic 4:
- Authorization Control Across Resource Hierarchy Topic 5:
- Workforce Identity Federation and Short-lived Credentials Topic 6:
- Daily recap and IAM configuration lab Reflection & Review:

Day 2: Securing Network Architecture

- VPC Setup, Firewall Rules, and Shared VPC Configuration Topic 1: •
- Implementing Cloud NGFW, Cloud Armor, and IAP Topic 2: •
- Securing Private Connectivity and Cloud NAT Topic 3: •
- Configuring VPC Service Controls for Boundary Protection Topic 4: •
- Deploying DNS Security and Secure Web Proxy Topic 5: •
- Restricting API Access and Load Balancer Security Topic 6: •
- Network segmentation and perimeter protection lab Reflection & Review: •

Day 3: Data Security and Encryption Strategies

- Identifying and Protecting PII with SDP and DLP Topic 1: •
- Encrypting Data at Rest, in Transit, and in Use CMEK, EKM Topic 2: •
- Managing Secrets with Secret Manager and Metadata Protection Topic 3: •
- Key Lifecycle Management and Key Rotation Techniques Topic 4: •
- Object Lifecycle Policies and Confidential Computing Topic 5: •
- Access Control on BigQuery, GCS, Cloud SQL Topic 6: •
- Data encryption best practices and use cases Reflection & Review: •

Day 4: Operations and AI Workload Protection

- CI/CD Pipeline Security and Binary Authorization Topic 1: •
- Logging Infrastructure Audit Logs, VPC Flow, Packet Mirroring Topic 2: •
- Monitoring, Threat Detection, and Security Health Analytics Topic 3: •
- Securing ML/AI Models and Vertex AI Implementations Topic 4: •
- Cloud Supply Chain Security and Software Integrity Topic 5: •
- Drift Detection and Policy Enforcement Automation Topic 6: •
- Operational security case study and group lab Reflection & Review: •

Day 5: Compliance, Governance, and Certification Readiness

- Mapping Compliance to GCP Security Controls Topic 1: •
- Access Transparency, Regionalization, and Assured Workloads Topic 2: •
- Understanding the Shared Responsibility Model in Practice Topic 3: •
- GCP Tools for Audit Logging and Regulatory Enforcement Topic 4: •
- Final Exam Simulation and Study Strategy Session Topic 5: •
- Building a Personalized Certification and Career Plan Topic 6: •
- Capstone project review and certification Q&A Reflection & Review: •

FAQ:

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

Participants should have basic knowledge of cloud infrastructure, security concepts, and experience using GCP services.

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 generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20-25 hours of instruction.

What is the difference between Google-managed encryption and customer-managed keys?

Google-managed encryption handles key creation and management automatically, while customer-managed encryption keys CMEK allow clients to create, rotate, and revoke encryption keys to meet compliance or internal governance requirements.

How This Course is Different from Other Google Cloud Security Engineer Courses:

Unlike generic security training programs, this course is built specifically to match the official Google Certified Professional Cloud Security Engineer exam blueprint. It incorporates real-world use cases from enterprise cloud deployments and emphasizes GCP Security Certification through guided hands-on practice. Attendees benefit from structured exam prep, industry insights, advanced encryption and AI workload protection topics, and strategies for implementing security across GCP IAM and VPC, data security, and compliance. This approach ensures participants are both certification-ready and capable of implementing secure workloads across real-world GCP environments.



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HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



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دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



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دورات التدريب القانوني والمشتريات والتعاقدات



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دورات الصحة والسلامة والأمن المهني



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دورات الحوكمة وإدارة المخاطر والامتثال



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دورات معتمدة بشهادة CPD



دورات في مجالات القيادة والإدارة



دورات المهارات الشخصية وتطوير الذات



دورات المحاسبة و التمويل و دورات الإدارة
الهائية



دورات مكتب إدارة المشاريع وإدارة المشاريع
الرشيقة



دورات معتمدة من قبل هيئات دولية

مدن التدريب



اسطنبول - تركيا



أمستردام - هولندا



أنقرة - تركيا



أثينا - اليونان



الرياض - المملكة العربية السعودية



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



باريس - فرنسا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



براغ - جمهورية التشيك



بانكوك - تايلاند



بالي - جمهورية إندونيسيا



باكو - أذربيجان

مدن التدريب



جاكرتا - جمهورية اندونيسيا



تيليسي - جورجيا



بوكيت - تايلاند



برشلونة - إسبانيا



روما - إيطاليا



دبي - الإمارات العربية المتحدة



جوهانسبرغ - جنوب إفريقيا



جنيف - سويسرا



شرم الشيخ - مصر



سيول - كوريا الجنوبية



سان دييغو - الولايات المتحدة الأمريكية



زنبار - تنزانيا



طوكيو - اليابان



طشقند - أوزبكستان



طرابزون - تركيا



شيكاغو - الولايات المتحدة الأمريكية

مدن التدريب



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



ماربيا - اسبانيا



لندن - المملكة المتحدة



لانكاوي - ماليزيا



كيب تاون - جنوب إفريقيا



ميلان - إيطاليا



مونترنو - سويسرا



مسقط - سلطنة عمان



مدريد - إسبانيا



نيس - فرنسا



نيروبي - كينيا



ميونخ - ألمانيا

WHO WE ARE

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.



AGILE LEADERS
Training Center

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