# Google Cloud Technical Training and Certification

| Category | Role | | | | | |
|---|---|---|---|---|---|---|
| **Foundations** | | Google Cloud Fundamentals: Core Infrastructure (1 day) | Introduction to Data Engineering on Google Cloud (1 day) | Introduction to AI and Machine Learning on Google Cloud (1 day) | Introduction to Data Analytics on Google Cloud (1 day) | Getting Started with Terraform for Google Cloud (1 day) / Getting Started with Google Kubernetes Engine (1 day) |
| **Cloud Infrastructure** | **Cloud Architect** | Architecting with Google Compute Engine (3 days) | Architecting with Google Cloud: Design and Process (2 days) | Getting Started with Google Kubernetes Engine (1 day) | Logging, Monitoring, and Observability in Google Cloud (2 days) | Professional Cloud Architect: Google Cloud Advanced Skills & Certification Workshop (2 days) |
| | **Cloud Engineer** | Architecting with Google Compute Engine (3 days) | Getting Started with Google Kubernetes Engine (1 day) | Logging, Monitoring, and Observability in Google Cloud (2 days) | Getting Started with Terraform for Google Cloud (1 day) | Associate Cloud Engineer: Google Cloud Advanced Skills & Certification Workshop (2 days) |
| **Application Development** | **Cloud Developer** | Developing Applications with Google Cloud (3 days) | Getting Started with Google Kubernetes Engine (1 day) | Developing Applications with Cloud Functions on Cloud Run (1/2 day) | Application Development with Cloud Run (3 days) | Professional Cloud Developer: Google Cloud Advanced Skills & Certification Workshop (2 days) |
| | **Cloud DevOps Engineer** | Architecting with Google Cloud: Design and Process (2 days) | Logging, Monitoring, and Observability (2 days) | Getting Started with Terraform for Google Cloud (1 day) | Professional Cloud DevOps Engineer: Google Cloud Advanced Skills & Certification Workshop (2 days) | |
| **Kubernetes, Hybrid, and Multi-Cloud** | **Cloud Architect (Hybrid and Multi-Cloud)** | Architecting with Google Kubernetes Engine (2 days) | | | | |
| **Data Engineering and Analytics** | **Data Analyst** | From Data to Insights with Google Cloud Platform (3 days) | Data Warehousing with BigQuery (3 days) | Analyzing and Visualizing Data in Looker (1 day) | Developing Data Models with LookML (1 day) | Looker Developer Deep Dive (2 days) |
| | **Data Engineer** | Data Engineering on Google Cloud (4 days) | Serverless Data Processing with Dataflow (3 days) | Professional Data Engineer: Google Cloud Advanced Skills & Certification Workshop (2 days) | | Data Integration with Cloud Data Fusion (2 days) |
| | **Database Engineer** | Developing Applications with Google Cloud (3 days) | Enterprise Database Migration (4 days) | | | |

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| Apigee API Management | Architect/ Engineer (Hybrid and Private Cloud) | Developing APIs with Google Cloud's Apigee API Platform (3 days) | Architecting with Google Kubernetes Engine (2 days) | Managing Google Cloud's Apigee API Platform for Hybrid Cloud (3 days) | Installing and Managing Google Cloud's Apigee API Platform in Private Cloud (3 days) | |
|---|---|---|---|---|---|---|
| **Networking and Security** | Network Engineer | Networking in Google Cloud (3 days) | Logging, Monitoring, and Observability in Google Cloud (2 days) | Professional Cloud Network Engineer: Google Cloud Advanced Skills & Certification Workshop (2 days) | *Cloud Network Engineer* | |
| | Security Engineer | Networking in Google Cloud (3 days) | Security in Google Cloud (3 days) | Logging, Monitoring, and Observability in Google Cloud (2 days) | Professional Cloud Security Engineer: Google Cloud Advanced Skills & Certification Workshop (2 days) | *Cloud Security Engineer* |
| **Machine Learning and Artificial Intelligence** | Data Scientist | Machine Learning on Google Cloud (5 days) | Google Cloud Advanced Skills & Certification Workshop: Professional Machine Learning Engineer | *Machine Learning Engineer* | MLOps on Google Cloud (2 days) | Vertex AI for ML Practitioners (1 day) |
| | Contact Center Engineer | Developing Conversational Agents on Google Cloud (3 days) | | | | |
| **Google Cloud for Business** | | Cloud Digital Leader (2 days) | Data-Driven Transformation with Google Cloud (1 day) | Managing Machine Learning Projects with Google Cloud (1 day) | Leading Change When Moving to Google Cloud (1 day) | |
| **Google Cloud and Generative AI** | | Empower Decision Makers with Generative AI (1 day) | Introduction to Responsible AI in Practice (1 day) | Application Development with LLMs on Google Cloud (1 day) | Introduction to Developer Efficiency on Google Cloud (1 day) | Vertex AI Agent Builder (1 day) |
| | | GenAI in Production (1 day) | | | | |

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| Specialty Courses | Understanding Cloud Spanner (3 days) | Managing a Data Mesh with Dataplex (2 days) | Day 2 Operations on Google Cloud (2 days) | Migrating Athena, Redshift, Snowflake, Teradata Users to BigQuery | Google Cloud Fundamentals for Researchers (1 day) |
|---|---|---|---|---|---|
| | Introduction to Looker Studio Pro (1 day) | Become a Looker Studio Pro Power User (1 day) | Getting Started with FinOps on Google Cloud (1 day) | Technical Foundations of FinOps on Google Cloud (2 days) | Orchestrate BigQuery Workloads with Dataform (1 day) |