

-: Track - 1 : Cloud Infrastructure Track :-

Syllabus : <https://events.withgoogle.com/googlecloudready-facilitator-program>

Want track 2 and track 3 : [Go here](#)

(We will be updating doc soon.)

-: Quest : Learn & Practice :-

Quest - 1 : Google Cloud Essentials :-

S.No.	Code	Lab Link	Youtube Link
1	GSP282	A Tour of Qwiklabs and Google Cloud	https://youtu.be/MwMy0xOuOBI
2	GSP001	Creating a Virtual Machine	https://youtu.be/Co34im5mgGA
3	GSP002	Getting Started with Cloud Shell and gcloud	https://youtu.be/bMVBLE4dJRk
4	GSP100	Kubernetes Engine: Qwik Start	https://youtu.be/W15XgGTfHCQ
5	GSP007	Set Up Network and HTTP Load Balancers	https://youtu.be/dqXzfAZFJeE

Quest - 2 : Baseline: Infrastructure :-

S.No.	Code	Lab Link	Youtube Link
1	GSP073	Cloud Storage: Qwik Start - Cloud Console	https://youtu.be/A-3RbAbE7E
2	GSP064	Cloud IAM: Qwik Start	https://youtu.be/jbW70MdoeXI
3	GSP089	Cloud Monitoring: Qwik Start	https://youtu.be/tx8I0N6F40E
4	GSP081	Cloud Functions: Qwik Start - Console	https://youtu.be/sZo58_0ZOhM
5	GSP096	Google Cloud Pub/Sub: Qwik Start - Console	https://youtu.be/2Lsz9zzQ7GQ

Quest - 3 : Networking in the Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP499	User Authentication: Identity-Aware Proxy	https://youtu.be/U1MFkpQyedY
2	GSP211	Multiple VPC Networks	https://youtu.be/kktqpsHpPls
3	GSP213	VPC Networks - Controlling Access	https://youtu.be/GRGa7sQVAzU
4	GSP215	HTTP Load Balancer with Cloud Armor	https://youtu.be/Lohv9rcZIKM
5	GSP216	Create an Internal Load Balancer	https://youtu.be/A1YWiHA-P-Q
6	GSP474	Google Cloud Packet Mirroring with OpenSource IDS	https://youtu.be/bu0h5k42yL0

Quest - 4 : Kubernetes in Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP055	Introduction to Docker	https://youtu.be/-iSfTwlufPI
2	GSP100	Kubernetes Engine: Qwik Start	https://youtu.be/W15XgGTfHCQ
3	GSP021	Orchestrating the Cloud with Kubernetes	https://youtu.be/BV-55nWWtrQ
4	GSP053	Managing Deployments Using Kubernetes Engine	https://youtu.be/ugaVutkxpQs
5	GSP051	Continuous Delivery with Jenkins in Kubernetes Engine	https://youtu.be/t_WrxvCGX5Y

Quest - 5 : Cloud Engineering :-

S.No.	Code	Lab Link	Youtube Link
1	GSP064	Cloud IAM: Qwik Start	https://youtu.be/jbW70MdoeXI

2	GSP281	Introduction to SQL for BigQuery and Cloud SQL	https://youtu.be/gqxQxlpD6Ao
3	GSP211	Multiple VPC Networks	https://youtu.be/kktqpsHpPls
4	GSP089	Cloud Monitoring: Qwik Start	https://youtu.be/tx8l0N6F40E
5	GSP053	Managing Deployments Using Kubernetes Engine	https://youtu.be/ugaVutkxpQs

Quest - 6 : DevOps Essentials :-

S.No.	Code	Lab Link	Youtube Link
1	GSP121	Cloud Source Repositories: Qwik Start	https://youtu.be/GyEqKY-vvEg
2	GSP053	Managing Deployments Using Kubernetes Engine	https://youtu.be/ugaVutkxpQs
3	GSP233	Deploy Kubernetes Load Balancer Service with Terraform	https://youtu.be/7zQcJ3WsvRE
4	GSP425	Site Reliability Troubleshooting with Cloud Monitoring APM	https://youtu.be/Myj7O8aQKvE
5	GSP051	Continuous Delivery with Jenkins in Kubernetes Engine	https://youtu.be/t_WrxvCGX5Y

Quest - 7 : Security & Identity Fundamentals :-

S.No.	Code	Lab Link	Youtube Link
1	GSP064	Cloud IAM: Qwik Start	https://youtu.be/jbW70MdoeXI
2	GSP190	IAM Custom Roles	https://youtu.be/p8__INcoJuM
3	GSP199	Service Accounts and Roles: Fundamental	https://youtu.be/5okID50vlaw
4	GSP193	VPC Network Peering	https://youtu.be/KOiSoFS4rcQ
5	GSP499	User Authentication: Identity-Aware Proxy	https://youtu.be/U1MFkpQyedY
6	GSP079	Getting Started with Cloud KMS	https://youtu.be/y85i6RCQIWU

7	GSP474	Google Cloud Packet Mirroring with OpenSource IDS	https://youtu.be/bu0h5k42yL0
8	GSP178	Setting up a Private Kubernetes Cluster	https://youtu.be/LBd9Wvh92Js

Quest - 8 : Understanding Your Google Cloud Costs :-

S.No.	Code	Lab Link	Youtube Link
1	GSP282	A Tour of Qwiklabs and Google Cloud	https://youtu.be/MwMy0xOuOBI
2	GSP614	Understanding and Analyzing Your Costs with Google Cloud Billing Reports	-
3	GSP621	Analyzing Billing Data with BigQuery	https://youtu.be/5VI-InWqs7o
4	GSP622	Visualizing Billing Data with Google Data Studio	https://youtu.be/T8OtKASchXI
5	GSP623	Examining BigQuery Billing Data in Google Sheets	https://youtu.be/jVakKE9rl_0

Quest - 9 : Google Cloud Solutions I: Scaling Your Infrastructure :-

S.No.	Code	Lab Link	Youtube Link
1	GSP115	Building High Availability and High Bandwidth NAT Gateways	https://youtu.be/RnWRDg02VCI
2	GSP087	Autoscaling an Instance Group with Custom Cloud Monitoring Metrics	https://youtu.be/6ANbuLzyDCg
3	GSP117	Setting up Jenkins on Kubernetes Engine	https://youtu.be/mgRxDIVu0wc
4	GSP114	Continuous Delivery Pipelines with Spinnaker and Kubernetes Engine	https://youtu.be/4o7JTdaY65M
5	GSP118	Deploying a Fault-Tolerant Microsoft Active Directory Environment	https://youtu.be/rJczRjX58xc
6	GSP116	Deploying Memcached on	https://youtu.be/S-l13hDO3_Y

		Kubernetes Engine	
7	GSP133	Running Dedicated Game Servers in Google Kubernetes Engine	https://youtu.be/VA-wVmKnHDQ
8	GSP182	Distributed Load Testing Using Kubernetes	https://youtu.be/Hy96f9wDKJ0

Quest - 10 : Cloud Architecture :-

S.No.	Code	Lab Link	Youtube Link
1	GSP021	Orchestrating the Cloud with Kubernetes	https://youtu.be/BV-55nWWtrQ
2	GSP114	Continuous Delivery Pipelines with Spinnaker and Kubernetes Engine	https://youtu.be/4o7JTdaY65M
3	GSP211	Multiple VPC Networks	https://youtu.be/kktqpsHpPIs
4	GSP425	Site Reliability Troubleshooting with Cloud Monitoring APM	https://youtu.be/Myj7O8aQKvE

-: Skill Badge: Test your Quest Skills :-

Skill Badge - 1 : Getting Started: Create and Manage Cloud Resources :-

S.No.	Code	Lab Link	Youtube Link
1	GSP282	A Tour of Qwiklabs and Google Cloud	https://youtu.be/MwMy0xOuOBI
2	GSP001	Creating a Virtual Machine	https://youtu.be/Co34im5mgGA
3	GSP002	Getting Started with Cloud Shell and gcloud	https://youtu.be/bMVBLE4dJRk
4	GSP100	Kubernetes Engine: Qwik Start	https://youtu.be/W15XgGTfHC

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5	GSP007	Set Up Network and HTTP Load Balancers	https://youtu.be/dqXzfAZFJeE
6	GSP313	Create and Manage Cloud Resources: Challenge Lab	https://youtu.be/2pNTwtXGsF8

Skill Badge - 2 : Perform Foundational Infrastructure Tasks in Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP073	Cloud Storage: Qwik Start - Cloud Console	https://youtu.be/A-_3RbAbE7E
2	GSP064	Cloud IAM: Qwik Start	https://youtu.be/jbW70MdoeXI
3	GSP089	Cloud Monitoring: Qwik Start	https://youtu.be/tx8l0N6F40E
4	GSP081	Cloud Functions: Qwik Start - Console	https://youtu.be/sZo58_0ZOhM
5	GSP096	Google Cloud Pub/Sub: Qwik Start - Console	https://youtu.be/2Lsz9zzQ7GQ
6	GSP315	Perform Foundational Infrastructure Tasks in Google Cloud: Challenge Lab	https://youtu.be/aLmNzIYhY6U

Skill Badge - 3 : Build and Secure Networks in Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP499	User Authentication: Identity-Aware Proxy	https://youtu.be/U1MFkpQyedY
2	GSP211	Multiple VPC Networks	https://youtu.be/kktqpsHpPls
3	GSP213	VPC Networks - Controlling Access	https://youtu.be/GRGa7sQVAzU
4	GSP215	HTTP Load Balancer with Cloud Armor	https://youtu.be/Lohv9rcZIKM

5	GSP216	Create an Internal Load Balancer	https://youtu.be/A1YWiHA-P-Q
6	GSP322	Build and Secure Networks in Google Cloud: Challenge Lab	

Skill Badge - 4 : Deploy to Kubernetes in Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP055	Introduction to Docker	https://youtu.be/-iSfTwlufPI
2	GSP100	Kubernetes Engine: Qwik Start	https://youtu.be/W15XgGTfHCQ
3	GSP021	Orchestrating the Cloud with Kubernetes	https://youtu.be/BV-55nWWtrQ
4	GSP053	Managing Deployments Using Kubernetes Engine	https://youtu.be/ugaVutkxpQs
5	GSP051	Continuous Delivery with Jenkins in Kubernetes Engine	https://youtu.be/t_WrxvCGX5Y
6	GSP318	Deploy to Kubernetes in Google Cloud: Challenge Lab	

Skill Badge - 5 : Set Up and Configure a Cloud Environment in Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP064	Cloud IAM: Qwik Start	https://youtu.be/jbW70MdoeXI
2	GSP281	Introduction to SQL for BigQuery and Cloud SQL	https://youtu.be/gqxQxlpD6Ao
3	GSP211	Multiple VPC Networks	https://youtu.be/kktqpsHpPIs
4	GSP089	Cloud Monitoring: Qwik Start	https://youtu.be/tx8l0N6F40E
5	GSP053	Managing Deployments Using Kubernetes Engine	https://youtu.be/ugaVutkxpQs
6	GSP321	Set Up and Configure a Cloud Environment in Google Cloud:	

		Challenge Lab	
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Skill Badge - 6 : DevOps Essentials :-

S.No.	Code	Lab Link	Youtube Link
1	GSP121	Cloud Source Repositories: Qwik Start	https://youtu.be/GyEqKY-vvEg
2	GSP053	Managing Deployments Using Kubernetes Engine	https://youtu.be/ugaVutkxpQs
3	GSP233	Deploy Kubernetes Load Balancer Service with Terraform	https://youtu.be/7zQcJ3WsvRE
4	GSP425	Site Reliability Troubleshooting with Cloud Monitoring APM	https://youtu.be/Myj7O8aQKvE
5	GSP051	Continuous Delivery with Jenkins in Kubernetes Engine	https://youtu.be/t_WrxvCGX5Y
6	GSP330	Implement DevOps in Google Cloud: Challenge Lab	

Skill Badge - 7 : Ensure Access & Identity in Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP064	Cloud IAM: Qwik Start	https://youtu.be/jbW70MdoeXI
2	GSP190	IAM Custom Roles	https://youtu.be/p8__INcoJuM
3	GSP199	Service Accounts and Roles: Fundamental	https://youtu.be/5okID50vlaw
4	GSP193	VPC Network Peering	https://youtu.be/KOiSoFS4rcQ
5	GSP499	User Authentication: Identity-Aware Proxy	https://youtu.be/U1MFkpQyedY
6	GSP079	Getting Started with Cloud KMS	https://youtu.be/y85i6RCQIWU
7	GSP178	Setting up a Private Kubernetes Cluster	https://youtu.be/LBd9Wvh92Js
8	GSP342	Ensure Access & Identity in Google	https://youtu.be/RLcwZW4bQB

		Cloud: Challenge Lab	A
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Skill Badge - 8 - No skill badge for quest 8

Skill Badge - 9 - No skill badge for quest 9

Skill Badge - 10 : Cloud Architecture: Design, Implement, and Manage :-

S.No.	Code	Lab Link	Youtube Link
1	GSP101	Google Cloud Essential Skills: Challenge Lab	https://youtu.be/zolZmRG5AB0
2	GSP301	Deploy a Compute Instance with a Remote Startup Script	https://youtu.be/HcH22bEHjdY
3	GSP302	Configure a Firewall and a Startup Script with Deployment Manager	https://youtu.be/hRjpgVVlcpA
4	GSP303	Configure Secure RDP using a Windows Bastion Host	https://youtu.be/eD1fLB6RIso
5	GSP304	Build and Deploy a Docker Image to a Kubernetes Cluster	
6	GSP305	Scale Out and Update a Containerized Application on a Kubernetes Cluster	
7	GSP306	Migrate a MySQL Database to Google Cloud SQL	

-: **Track 2 : Cloud-native Application Development Track :-**

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-: Track 2 : Cloud-native Application Development Track :-

-: Quest : Learn & Practice :-

Quest - 1 : Google Developer Essentials :-

S.No.	Code	Lab Link	Youtube Link
1	GSP009	Weather Data in BigQuery	https://youtu.be/uUqJpK69oW0
2	GSP223	Classify Images of Clouds in the Cloud with AutoML Vision	
3	GSP486	Google Assistant: Build a Restaurant Locator with the Places API	https://youtu.be/P119qLLeWfU
4	GSP068	App Engine: Qwik Start - Java	https://youtu.be/VuJvHRjBLuc
5	GSP087	Autoscaling an Instance Group with Custom Cloud Monitoring Metrics	https://youtu.be/6ANbuLzyDCg

Quest - 2 : OK Google : Build Interactive Apps with Google Assistant :-

S.No.	Code	Lab Link	Youtube Link
1	GSP263	Google Assistant: Qwik Start - Dialogflow	https://youtu.be/a0Imuvtiir8
2	GSP294	Introduction to APIs in Google	https://youtu.be/Jj1sNni1L9o
3	GSP174	Google Assistant: Build an Application with Dialogflow and Cloud Functions	https://youtu.be/S9vYQQ7SehY
4	GSP487	Google Assistant: Build a Youtube Entertainment App	https://youtu.be/S9vYQQ7SehY
5	GSP486	Google Assistant: Build a Restaurant Locator with the Places API	https://youtu.be/P119qLLeWfU

Quest - 3 : Machine Learning APIs :-

S.No.	Code	Lab Link	Youtube Link
1	GSP294	Introduction to APIs in Google	https://youtu.be/Jj1sNni1L9o
2	GSP075	Extract, Analyze, and Translate Text from Images with the Cloud ML APIs	-
3	GSP063	Classify Text into Categories with the Natural Language API	https://youtu.be/ul0QtF6zHEM
4	GSP037	Detect Labels, Faces, and Landmarks in Images with the Cloud Vision API	https://youtu.be/EQuNTEGurm4
5	GSP038	Entity and Sentiment Analysis with the Natural Language API	https://youtu.be/9m59BoTHeW0
6	GSP066	Awwvision: Cloud Vision API from a Kubernetes Cluster	https://youtu.be/Yq8geu3VmsA

Quest - 4 : Cloud Development :-

S.No.	Code	Lab Link	Youtube Link
1	GSP183	App Dev: Setting up a Development Environment - Python	https://youtu.be/SijMtWrqiwg
2	GSP184	App Dev: Storing Application Data in Cloud Datastore - Python	https://youtu.be/6l7StjFI-hA
3	GSP185	App Dev: Storing Image and Video Files in Cloud Storage - Python	https://youtu.be/s_ENdplJrdo
4	GSP186	App Dev: Adding User Authentication to your Application - Python	
5	GSP187	App Dev: Developing a Backend Service - Python	
6	GSP188	App Dev: Deploying the Application into Kubernetes Engine - Python	
7	GSP172	App Dev - Deploying the Application into App Engine Flexible Environment - Java	

8	GSP089	Cloud Monitoring: Qwik Start	
9	GSP209	Cloud Profiler: Qwik Start	

Quest - 5 : Cloud Logging :-

S.No.	Code	Lab Link	Youtube Link
1	GSP610	Fundamentals of Cloud Logging	
2	GSP617	Using BigQuery and Cloud Logging to Analyze BigQuery Usage	
3	GSP483	Cloud Logging on Kubernetes Engine	
4	GSP092	Monitoring and Logging for Cloud Functions	
5	GSP091	Creating and Alerting on Logs-based Metrics	

Quest - 6 : Website on Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP659	Deploy Your Website on Cloud Run	
2	GSP662	Hosting a Web App on Google Cloud Using Compute Engine	
3	GSP663	Deploy, Scale, and Update Your Website on Google Kubernetes Engine	
4	GSP699	Migrating a Monolithic Website to Microservices on Google Kubernetes Engine	