-: <u>GoogleCloudReady Facilitator Program</u> :-

[Syllabus : https://events.withgoogle.com/googlecloudready-facilitator-program](#)

Telegram : [Click Here](#)   YouTube : [Click Here](#)

-: <u>Track - 1, Track - 2, Track - 3 below</u> :-

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-: <u>Challenge Labs</u> :-

S.No.	Code	Lab Link	Youtube Link
1	GSP313	[Create and Manage Cloud Resources: Challenge Lab](#)	[https://youtu.be/2pNTwtxGsF8](#)
2	GSP315	[Perform Foundational Infrastructure Tasks in Google Cloud: Challenge Lab](#)	[https://youtu.be/aLmNzIYhY6U](#)
3	GSP322	[Build and Secure Networks in Google Cloud: Challenge Lab](#)	[https://youtu.be/NIOJubY0OCs](#)
4	GSP318	[Deploy to Kubernetes in Google Cloud: Challenge Lab](#)	[https://youtu.be/GRUTTbd5GdY](#)
5	GSP321	[Set Up and Configure a Cloud Environment in Google Cloud: Challenge Lab](#)	[https://youtu.be/Rpy6MpoJJtw](#)
6	GSP330	[Implement DevOps in Google Cloud: Challenge Lab](#)	[https://youtu.be/tZj6Rqmnb0Y](#)
7	GSP342	[Ensure Access & Identity in Google Cloud: Challenge Lab](#)	[https://youtu.be/RLcwZW4bQBA](#)

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8	GSP101	Google Cloud Essential Skills: Challenge Lab	https://youtu.be/zolZmRG5AB0
9	GSP306	Migrate a MySQL Database to Google Cloud SQL	https://youtu.be/RRwcT2vCj1w
10	GSP325	Build Interactive Apps with Google Assistant: Challenge Lab	https://youtu.be/1i5-pWs_6Bc
11	GSP329	Integrate with Machine Learning APIs: Challenge Lab	https://youtu.be/B0YZtSp1BKg
12	GSP319	Build a Website on Google Cloud: Challenge Lab	https://youtu.be/JPmxq8-eCXU
13	GSP323	Perform Foundational Data, ML, and AI Tasks in Google Cloud: Challenge Lab	https://youtu.be/ess1-jSCd-I
14	GSP787	Insights from Data with BigQuery: Challenge Lab	https://youtu.be/Gj1qrD423YI
15	GSP341	Create ML Models with BigQuery ML: Challenge Lab	https://youtu.be/8RIbocl1QUM
16	GSP327	Engineer Data in Google Cloud: Challenge Lab	https://youtu.be/82su32ztgto
17	GSP314 / GSP360	Deploy and Manage Cloud Environments with Google Cloud: Challenge Lab	https://youtu.be/HYNbgslWQ98

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-: <u>Track - 1 : Cloud Infrastructure Track</u> :-

-: <u>Quest : Learn & Practice</u> :-

<u>Quest - 1 : Google Cloud Essentials</u> :-

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

<u>Quest - 2 : Baseline: Infrastructure</u> :-

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/Lohv9rcZlKM
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/-iSfTwIufPI
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 :-

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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/gqxQxIpD6Ao
3	GSP211	Multiple VPC Networks	https://youtu.be/kktqpsHpPls
4	GSP089	Cloud Monitoring: Qwik Start	https://youtu.be/tx8I0N6F40E
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/hF6rzNjQYhY
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__lNcoJuM

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3	GSP199	Service Accounts and Roles: Fundamental	https://youtu.be/5okID50vIaw
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	https://youtu.be/dN-4v7loWZ4
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	https://youtu.be/RnWRDg02VCI

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		[Bandwidth NAT Gateways](#)	
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 Kubernetes Engine](#)	https://youtu.be/S-l13hDO3_Y
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

<u>Quest - 10 : Cloud Architecture</u> :-

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/kktqpsHpPls
4	GSP425	[Site Reliability Troubleshooting with Cloud Monitoring APM](#)	https://youtu.be/hF6rzNjQYhY

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-: 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/W15XgGTfHCQ
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/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
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](#)	https://youtu.be/NIOJubY0OCs

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](#)	https://youtu.be/ugaVutkxpQs

		Kubernetes Engine	
5	GSP051	Continuous Delivery with Jenkins in Kubernetes Engine	https://youtu.be/t_WrxvCGX5Y
6	GSP318	Deploy to Kubernetes in Google Cloud: Challenge Lab	https://youtu.be/GRUTTbd5GdY

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/gqxQxIpD6Ao
3	GSP211	Multiple VPC Networks	https://youtu.be/kktqpsHpPls
4	GSP089	Cloud Monitoring: Qwik Start	https://youtu.be/tx8I0N6F40E
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	https://youtu.be/Rpy6MpoJJtw

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	https://youtu.be/7zQcJ3WsvRE

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		[Service with Terraform](#)	
4	GSP425	[Site Reliability Troubleshooting with Cloud Monitoring APM](#)	https://youtu.be/hF6rzNjQYhY
5	GSP051	[Continuous Delivery with Jenkins in Kubernetes Engine](#)	https://youtu.be/t_WrxvCGX5Y
6	GSP330	[Implement DevOps in Google Cloud: Challenge Lab](#)	https://youtu.be/tZj6Rqmnb0Y

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__lNcoJuM
3	GSP199	[Service Accounts and Roles: Fundamental](#)	https://youtu.be/5okID50vIaw
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 Cloud: Challenge Lab](#)	https://youtu.be/RLcwZW4bQBA

Skill Badge - 8   -   **No skill badge for quest 8**

Skill Badge - 9   -   **No skill badge for quest 9**

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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/hRjpgVVIcpA
4	GSP303	Configure Secure RDP using a Windows Bastion Host	https://youtu.be/eD1fLB6RIs0
5	GSP304	Build and Deploy a Docker Image to a Kubernetes Cluster	https://youtu.be/XLTW8Yeq8xM
6	GSP305	Scale Out and Update a Containerized Application on a Kubernetes Cluster	https://youtu.be/T5l5Y-YInSc
7	GSP306	Migrate a MySQL Database to Google Cloud SQL	https://youtu.be/RRwcT2vCj1w

-: 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	https://youtu.be/6DUD3NAgJ-U
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/a0lmuvtiir8
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 |

<u>Quest - 3 : Machine Learning APIs</u> :-

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](#)	https://youtu.be/pKlU6WtXa0Q
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/Yq8qeu3VmsA

<u>Quest - 4 : Cloud Development</u> :-

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_ENdpIJrdo
4	GSP186	[App Dev: Adding User Authentication to your Application -](#)	https://youtu.be/3uN0Y4drTWs

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		Python	
5	GSP187	[App Dev: Developing a Backend Service - Python](#)	https://youtu.be/Ows2jsoNJjl
6	GSP188	[App Dev: Deploying the Application into Kubernetes Engine - Python](#)	https://youtu.be/CAOZjnBu06l
7	GSP172	[App Dev - Deploying the Application into App Engine Flexible Environment - Java](#)	https://youtu.be/U3Z6bqz2bUQ
8	GSP089	[Cloud Monitoring: Qwik Start](#)	https://youtu.be/tx8l0N6F40E
9	GSP209	[Cloud Profiler: Qwik Start](#)	https://youtu.be/1C47m9YCTlY

Quest - 5 : Cloud Logging :-

S.No.	Code	Lab Link	Youtube Link
1	GSP610	[Fundamentals of Cloud Logging](#)	https://youtu.be/K78Db-oibMY
2	GSP617	[Using BigQuery and Cloud Logging to Analyze BigQuery Usage](#)	https://youtu.be/9vCn6Daim8U
3	GSP483	[Cloud Logging on Kubernetes Engine](#)	https://youtu.be/ClkYkBC7OYs
4	GSP092	[Monitoring and Logging for Cloud Functions](#)	https://youtu.be/CryS9Zpa2Jo
5	GSP091	[Creating and Alerting on Logs-based Metrics](#)	https://youtu.be/X5jq7_aHlfc

Quest - 6 : Website on Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP659	[Deploy Your Website on Cloud Run](#)	https://youtu.be/CEMLuzEpTmo

2	GSP662	[Hosting a Web App on Google Cloud Using Compute Engine](#)	https://youtu.be/qPRxy1usNbg
3	GSP663	[Deploy, Scale, and Update Your Website on Google Kubernetes Engine](#)	https://youtu.be/vJFKGQpNGZc
4	GSP699	[Migrating a Monolithic Website to Microservices on Google Kubernetes Engine](#)	https://youtu.be/h-YDYz35uqE

 # Quest - 7 : Baseline: Deploy & Develop :-

S.No.	Code	Lab Link	Youtube Link
1	GSP122	[Google Cloud SDK: Qwik Start - Redhat/Centos](#)	https://youtu.be/SRmV74kOo3I
2	GSP067	[App Engine: Qwik Start - Python](#)	https://youtu.be/mY0uGHvlGkE
3	GSP121	[Cloud Source Repositories: Qwik Start](#)	https://youtu.be/GyEqKY-vvEg
4	GSP144	[Container-Optimized OS: Qwik Start](#)	https://youtu.be/js2mSwqGnbA
5	GSP131	[Datastore: Qwik Start](#)	https://youtu.be/Q91cVjqQ870
6	GSP151	[Cloud SQL for MySQL: Qwik Start](#)	https://youtu.be/UrPHYuZrmpw
7	GSP106	[Data Loss Prevention: Qwik Start - Command Line](#)	https://youtu.be/k4wGxovYCkk
8	GSP080	[Cloud Functions: Qwik Start - Command Line](#)	https://youtu.be/Ws_g8yCcbAk
9	GSP154	[Video Intelligence: Qwik Start](#)	https://youtu.be/qffbEYLaqgQ
10	GSP112	[Cloud Security Scanner: Qwik Start](#)	https://youtu.be/nrSehf971zM
11	GSP263	[Google Assistant: Qwik Start - Dialogflow](#)	https://youtu.be/a0lmuvtiir8
12	GSP164	[Cloud Endpoints: Qwik Start](#)	https://youtu.be/3Ig3roaywOk

Quest - 8 : Exploring APIs :-

S.No.	Code	Lab Link	Youtube Link
1	GSP294	Introduction to APIs in Google	https://youtu.be/Jj1sNni1L9o
2	GSP277	APIs Explorer: Qwik Start	https://youtu.be/z0oIFSw1Ros
3	GSP421	APIs Explorer: Cloud Storage	https://youtu.be/itIFUxE5RlQ
4	GSP288	APIs Explorer: Create and Update a Cluster	https://youtu.be/S9-EaIDWGN0
5	GSP293	APIs Explorer: Compute Engine	https://youtu.be/sN0fGBu71nA
6	GSP422	APIs Explorer: App Engine	https://youtu.be/AY6KY0AZ8ag
7	GSP423	APIs Explorer: Cloud SQL	https://youtu.be/xhX04tl-H4Y
8	GSP284	APIs Explorer: PubSub and IoT	https://youtu.be/wRufi-hrfBo

Quest - 9 : IoT in the Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP086	Internet of Things: Qwik Start	https://youtu.be/s6Ffzrbq5z0
2	GSP278	Streaming IoT Data to Cloud Storage	https://youtu.be/862JIUuKQn4
3	GSP279	Streaming IoT Core Data to Dataprep	https://youtu.be/l81ubc14zF4
4	GSP088	Building an IoT Analytics Pipeline on Google Cloud	https://youtu.be/YEMWWL-LSZ8
5	GSP224	A Tour of Cloud IoT Core	https://youtu.be/RaR53UABI0Y
6	GSP258	Using Cloud Logging with IoT Core Devices	https://youtu.be/J32cBAt4Kbg
7	GSP265	Using Firestore with Cloud IoT Core for Device Configuration	https://youtu.be/IdY4JDd2WQk

Quest - 10 : Workspace: Integrations :-

S.No.	Code	Lab Link	Youtube Link
1	GSP294	Introduction to APIs in Google	https://youtu.be/Jj1sNni1L9o
2	GSP249	Creating a Gmail Add-on	https://youtu.be/TEOj8lWGDrw
3	GSP235	Google Apps Script: Access Google Sheets, Maps & Gmail in 4 Lines of Code	https://youtu.be/jWypPR0vt3Q
4	GSP239	The Apps Script CLI - clasp	https://youtu.be/r98gBHn2djA
5	GSP250	Hangouts Chat bot - Apps Script	https://youtu.be/yVtrJFczOns
6	GSP236	Google Sheets as a Reporting Tool: Sheets API	https://youtu.be/V_czJB2RSGc
7	GSP240	Big Data Analysis to a Slide Presentation	https://youtu.be/tqjqyfNQbfQ
8	GSP126	Using the Natural Language API from Google Docs	https://youtu.be/-4V4hyccmkY

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-: Skill Badge: Test your Quest Skills :-

Skill Badge - 1   - No skill badge for quest 1

Skill Badge - 2 : Build Interactive Apps with Google Assistant :-

S.No.	Code	Lab Link	Youtube Link
1	GSP263	Google Assistant: Qwik Start - Dialogflow	https://youtu.be/a0lmuvtiir8
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
6	GSP325	Build Interactive Apps with Google Assistant: Challenge Lab	https://youtu.be/1i5-pWs_6Bc

Skill Badge - 3 : Integrate with 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	https://youtu.be/pKIU6WtXa0Q
3	GSP063	Classify Text into Categories with the Natural Language API	https://youtu.be/uI0QtF6zHEM
4	GSP037	Detect Labels, Faces, and	https://youtu.be/EQuNTEGurm4

		Landmarks in Images with the Cloud Vision API	
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/Yq8qeu3VmsA
7	GSP329	[Integrate with Machine Learning APIs: Challenge Lab](#)	https://youtu.be/B0YZtSp1BKg

Skill Badge - 4   -   No skill badge for quest 4

Skill Badge - 5   -   No skill badge for quest 5

Skill Badge - 6 : Website on Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP659	[Deploy Your Website on Cloud Run](#)	https://youtu.be/CEMLuzEpTmo
2	GSP662	[Hosting a Web App on Google Cloud Using Compute Engine](#)	https://youtu.be/qPRxy1usNbg
3	GSP663	[Deploy, Scale, and Update Your Website on Google Kubernetes Engine](#)	https://youtu.be/vJFKGQpNGZc
4	GSP699	[Migrating a Monolithic Website to Microservices on Google Kubernetes Engine](#)	https://youtu.be/h-YDYz35uqE
5	GSP319	[Build a Website on Google Cloud: Challenge Lab](#)	https://youtu.be/JPmxq8-eCXU

Skill Badge - 7   -   No skill badge for quest 7

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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   -   No skill badge for quest 10

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-: <u>Track - 3 : Big Data & Machine Learning Track</u> :-

-: <u>Quest : Learn & Practice</u> :-

<u>Quest - 1 : Baseline: Data, ML, AI</u> :-

S.No.	Code	Lab Link	Youtube Link
1	GSP076	AI Platform: Qwik Start	https://youtu.be/ifUvkMFJqRQ
2	GSP105	Dataprep: Qwik Start	https://youtu.be/vhq8iNeGwrk
3	GSP192	Dataflow: Qwik Start - Templates	https://youtu.be/KCCEFqj_ZKA
4	GSP103	Dataproc: Qwik Start - Console	https://youtu.be/4VT8pXSzdNU
5	GSP097	Cloud Natural Language API: Qwik Start	https://youtu.be/AKw6dVnPWiE
6	GSP691	Reinforcement Learning: Qwik Start	https://youtu.be/-9OnoQgghOc

<u>Quest - 2 : BigQuery Basics for Data Analysts</u> :-

S.No.	Code	Lab Link	Youtube Link
1	GSP281	Introduction to SQL for BigQuery and Cloud SQL	https://youtu.be/gqxQxIpD6Ao
2	GSP072	BigQuery: Qwik Start - Console	https://youtu.be/QOAbLv996XA
3	GSP407	Exploring an Ecommerce Dataset using SQL in Google BigQuery	https://youtu.be/6-APh27hgi4
4	GSP408	Troubleshooting Common SQL Errors with BigQuery	https://youtu.be/jeAk7C4RK9s
5	GSP409	Explore and Create Reports with Data Studio	https://youtu.be/1gAbv-RLdpI

Quest - 3 : BigQuery for Machine Learning :-

S.No.	Code	Lab Link	Youtube Link
1	GSP247	Getting Started with BQML	https://youtu.be/9ozk-hZduKg
2	GSP229	Predict Visitor Purchases with a Classification Model in BQML	https://youtu.be/kLLckF2UUhs
3	GSP246	Predict Taxi Fare with a BigQuery ML Forecasting Model	https://youtu.be/obU2uIC3SzM
4	GSP461	Bracketology with Google Machine Learning	https://youtu.be/PehySyi3TIw
5	GSP431	Implement a Helpdesk Chatbot with Dialogflow & BigQuery ML	https://youtu.be/XTSaluD5wVl

Quest - 4 : Bracketology with Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP406	Using BigQuery in the Google Cloud Console	https://youtu.be/U-KIr-BBzSk
2	GSP281	Introduction to SQL for BigQuery and Cloud SQL	https://youtu.be/gqxQxIpD6Ao
3	GSP160	Exploring NCAA Data with BigQuery	https://youtu.be/xSU64bYUFw0
4	GSP461	Bracketology with Google Machine Learning	https://youtu.be/PehySyi3TIw

Quest - 5 : Applied Data: Blockchain :-

S.No.	Code	Lab Link	Youtube Link
1	GSP281	Introduction to SQL for BigQuery and Cloud SQL	https://youtu.be/gqxQxIpD6Ao

2	GSP604	Visualize the 10,000 Bitcoin Pizza Transaction Using BigQuery and AI Notebooks	https://youtu.be/uCVMPQyoD6E
3	GSP603	Tracking Cryptocurrency Exchange Trades with Google Cloud Platform in Real-Time	https://youtu.be/_sx7QFma4MQ
4	GSP420	Getting Started with Blockchain on GCP using Hyperledger Fabric and Composer	https://youtu.be/NlBvsN0D_AM
5	GSP665	Exploring the Public Cryptocurrency Datasets Available in BigQuery	https://youtu.be/eY_W1Prv_G8
6	GSP705	Spin Up A Blockchain Node with BlockApps STRATO in 3 minutes	https://youtu.be/qo5whkYLB5s

Quest - 6 : Data Engineering :-

S.No.	Code	Lab Link	Youtube Link
1	GSP430	Creating a Data Transformation Pipeline with Cloud Dataprep	https://youtu.be/cF4tDjLE1fo
2	GSP088	Building an IoT Analytics Pipeline on Google Cloud	https://youtu.be/YEMWWL-LSZ8
3	GSP290	ETL Processing on Google Cloud Using Dataflow and BigQuery	https://youtu.be/JIz_ddCTRS0
4	GSP229	Predict Visitor Purchases with a Classification Model in BQML	https://youtu.be/kLLckF2UUhs
5	GSP418	Predict Housing Prices with Tensorflow and AI Platform	https://youtu.be/igYEtHaCgQA
6	GSP283	Cloud Composer: Copying BigQuery Tables Across Different Locations	https://youtu.be/O-fiSiBnID8

Quest - 7 : Cloud SQL :-

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S.No.	Code	Lab Link	Youtube Link
1	GSP281	[Introduction to SQL for BigQuery and Cloud SQL](#)	https://youtu.be/gqxQxIpD6Ao
2	GSP151	[Cloud SQL for MySQL: Qwik Start](#)	https://youtu.be/UrPHYuZrmpw
3	GSP196	[Loading Data into Google Cloud SQL](#)	https://youtu.be/L_J1HILYLho
4	GSP234	[Cloud SQL with Terraform](#)	https://youtu.be/81mUkXz2ypI
5	GSP109	[Using Ruby on Rails with Cloud SQL for PostgreSQL](#)	https://youtu.be/NjFg9w3fBT4
6	GSP423	[APIs Explorer: Cloud SQL](#)	https://youtu.be/xhX04tl-H4Y
7	GSP449	[Connect to Cloud SQL from an Application in Kubernetes Engine](#)	https://youtu.be/W4CW4XbK3Bw

Quest - 8 : BigQuery for Data Warehousing :-

S.No.	Code	Lab Link	Youtube Link
1	GSP071	[BigQuery: Qwik Start - Command Line](#)	https://youtu.be/qZ-f_ZpEG-k
2	GSP413	[Creating a Data Warehouse Through Joins and Unions](#)	https://youtu.be/8MyInCJvSz4
3	GSP414	[Creating Date-Partitioned Tables in BigQuery](#)	https://youtu.be/P1P4rStCF80
4	GSP412	[Troubleshooting and Solving Data Join Pitfalls](#)	https://youtu.be/HuUubwPx4aA
5	GSP416	[Working with JSON, Arrays, and Structs in BigQuery](#)	https://youtu.be/aXgghJh_2M4
6	GSP814	[Build and Execute MySQL, PostgreSQL, and SQLServer to Data Catalog Connectors](#)	https://youtu.be/--HRPEsNsBE

Quest - 9 : Scientific Data Processing :-

S.No.	Code	Lab Link	Youtube Link
1	GSP281	Introduction to SQL for BigQuery and Cloud SQL	https://youtu.be/gqxQxIpD6Ao
2	GSP008	Rent-a-VM to Process Earthquake Data	https://youtu.be/Aw4NWXEsqNc
3	GSP009	Weather Data in BigQuery	https://youtu.be/uUqJpK69oW0
4	GSP010	Distributed Image Processing in Cloud Dataproc	https://youtu.be/2BRxp7moRTI
5	GSP012	Analyzing Natality Data Using AI Platform and BigQuery	https://youtu.be/SkDTixSYzaI
6	GSP013	Predict Baby Weight with TensorFlow on AI Platform	https://youtu.be/v2ZDj31hXro

Quest - 10 : Intro to ML: Language Processing :-

S.No.	Code	Lab Link	Youtube Link
1	GSP076	AI Platform: Qwik Start	https://youtu.be/ifUvkMFJqRQ
2	GSP119	Google Cloud Speech API: Qwik Start	https://youtu.be/TI0UaCWdObA
3	GSP097	Cloud Natural Language API: Qwik Start	https://youtu.be/AKw6dVnPWiE
4	GSP038	Entity and Sentiment Analysis with the Natural Language API	https://youtu.be/9m59BoTHeW0
5	GSP048	Speech to Text Transcription with the Cloud Speech API	https://youtu.be/MjYHFnLyl4M

-: Skill Badge: Test your Quest Skills :-

Skill Badge - 1 : Perform Foundational Data, ML, and AI Tasks in Google Cloud :-

S.No.	Code	Lab Link	Youtube Link
1	GSP076	AI Platform: Qwik Start	https://youtu.be/ifUvkMFJqRQ
2	GSP105	Dataprep: Qwik Start	https://youtu.be/vhq8iNeGwrk
3	GSP192	Dataflow: Qwik Start - Templates	https://youtu.be/KCCEFqj_ZKA
4	GSP103	Dataproc: Qwik Start - Console	https://youtu.be/4VT8pXSzdNU
5	GSP097	Cloud Natural Language API: Qwik Start	https://youtu.be/AKw6dVnPWiE
6	GSP119	Google Cloud Speech API: Qwik Start	https://youtu.be/TI0UaCWdObA
7	GSP154	Video Intelligence: Qwik Start	https://youtu.be/qffbEYLaqgQ
8	GSP323	Perform Foundational Data, ML, and AI Tasks in Google Cloud: Challenge Lab	https://youtu.be/ess1-jSCd-I

Skill Badge - 2 : Insights from Data with BigQuery :-

S.No.	Code	Lab Link	Youtube Link
1	GSP281	Introduction to SQL for BigQuery and Cloud SQL	https://youtu.be/gqxQxIpD6Ao
2	GSP072	BigQuery: Qwik Start - Console	https://youtu.be/QOAbLv996XA
3	GSP407	Exploring an Ecommerce Dataset using SQL in Google BigQuery	https://youtu.be/ZiTQ8TYwu9I
4	GSP408	Troubleshooting Common SQL	https://youtu.be/jeAk7C4RK9s

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		[Errors with BigQuery](#)	
5	GSP409	[Explore and Create Reports with Data Studio](#)	https://youtu.be/1gAbv-RLdpI
6	GSP787	[Insights from Data with BigQuery: Challenge Lab](#)	https://youtu.be/Gj1qrD423YI

Skill Badge - 3 : Create ML Models with BigQuery ML :-

S.No.	Code	Lab Link	Youtube Link
1	GSP247	[Getting Started with BQML](#)	https://youtu.be/9ozk-hZduKg
2	GSP229	[Predict Visitor Purchases with a Classification Model in BQML](#)	https://youtu.be/kLLckF2UUhs
3	GSP246	[Predict Taxi Fare with a BigQuery ML Forecasting Model](#)	https://youtu.be/obU2uIC3SzM
4	GSP461	[Bracketology with Google Machine Learning](#)	https://youtu.be/PehySyi3TIw
5	GSP431	[Implement a Helpdesk Chatbot with Dialogflow & BigQuery ML](#)	https://youtu.be/XTSaluD5wVI
6	GSP341	[Create ML Models with BigQuery ML: Challenge Lab](#)	https://youtu.be/8RIbocl1QUM

Skill Badge - 4   -   No skill badge for quest 4

Skill Badge - 5   -   No skill badge for quest 5

Skill Badge - 6 : Engineer Data in Google Cloud :-

S.No.	Code	Lab Link	Youtube Link

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1	GSP430	[Creating a Data Transformation Pipeline with Cloud Dataprep](url)	https://youtu.be/cF4tDjLE1fo
2	GSP088	[Building an IoT Analytics Pipeline on Google Cloud](url)	https://youtu.be/YEMWWL-LSZ8
3	GSP290	[ETL Processing on Google Cloud Using Dataflow and BigQuery](url)	https://youtu.be/JIz_ddCTRS0
4	GSP229	[Predict Visitor Purchases with a Classification Model in BQML](url)	https://youtu.be/kLLckF2UUhs
5	GSP418	[Predict Housing Prices with Tensorflow and AI Platform](url)	https://youtu.be/igYEtHaCgQA
6	GSP283	[Cloud Composer: Copying BigQuery Tables Across Different Locations](url)	https://youtu.be/O-fiSiBnID8
7	GSP327	[Engineer Data in Google Cloud: Challenge Lab](url)	https://youtu.be/82su32ztgto

<u>Skill Badge - 7</u>   -   No skill badge for quest 7

<u>Skill Badge - 8</u>   -   No skill badge for quest 8

<u>Skill Badge - 9</u>   -   No skill badge for quest 9

<u>Skill Badge - 10</u>   -   No skill badge for quest 10

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