EUROPEAN INFORMATION TECHNOLOGIES CERTIFICATION INSTITUTE, ASBL.

Brussels, Belgium, European Union

# CERTIFICATE

## Matthias Kuhn

Has successfully completed test requirements of
The European Information Technologies Certification Programme

## EITC/CL/GCP Google Cloud Platform

**Certification Programme examination result:** 80%

**Certification Programme description:**

Introductions: the essentials of GCP, GCP free tier and free trial, GCP console tour, GCP developer and management tools; GCP basic concepts: Compute Engine, Cloud Storage, Cloud SQL, BigQuery, Dataflow, Google Kubernetes Engine GKE, Cloud CDN, Cloud Operations, Load Balancing, High Performance Computing; GCP overview: GCP Compute Engine overview, GCP Machine Learning overview, GCP Serverless overview, GCP Data and Storage overview, GCP hands-on, GCP continuous learning, running containers on GCP, GCP and Firebase with projects and storage, GCP and Firebase with functions and Firestore, GCP logging, GCP error reporting, GCP debugging, GCP code and build tools; Getting started with GCP: Cloud SQL, Datastore, Cloud Spanner, Cloud Shell, Cloud VPC, Persistent Disks, Bigtable using Cloud Shell, App Engine Python, Cloud Storage, Compute Engine, Cloud Pub/Sub, Cloud IoT Core, Deployment Manager, Resource Access Control, text parsing and analysis with Python, text parsing and analysis for Node.js, text parsing and analysis for Go, converting speech to text with Node.js, translating speech using cURL, securing App Engine apps, setting up BigQuery sandbox, CLI for GCP, Private Container Registry/Storage, build and package container artifacts, Cloud Functions quickstart, Managed Kubernetes quickstart, BigQuery Web UI quickstart, Cloud Endpoints quickstart, image recognition and classification with Cloud Vision, running a query with BigQuery Web UI, loading local data into BigQuery using the Web UI, setting up cost controls for BigQuery, locating and querying public datasets, copying datasets in BigQuery, querying CloudSQL from BigQuery, making data public in Cloud Storage, using object versioning; GCP networking: Virtual Private Cloud (VPC), Google Cloud Interconnect, Firewall Rules, IP Addresses, Network Address Translation (NAT), shared VPC, VPC Peering, routing, Cloud Router, Load Balancing, limiting public IPs; GCP serverless with Cloud Run: introduction to Cloud Run, Cloud Run examplary deployment, Cloud Run developments; GCP labs: access control with Cloud IAM, machine learning with Cloud ML Engine, scalable storage, meaningful insights with BigQuery, scalable apps with App Engine, containerized apps with Kubernetes Engine, connecting GCP services with Cloud Functions, health monitoring with Stackdriver, Google Cloud Deployment Manager, event driven processing with Cloud Pub/Sub, Slack Bot with Node.js on Kubernetes, exploring NCAA data with BigQuery, scalable database service with Cloud Spanner, speech recognition using Machine Learning, processing text with Cloud Natural Language, analyzing large datasets with Cloud Datalab, personalization of G Suite Admin, IoT devices at scale with IoT Core, Apache Spark and Hadoop with Cloud Dataproc, Qwikilabs for Google Cloud hands-on practice, Cloud SDK essential command-line tools, PostgreSQL and MySQL databases with Cloud SQL, IoT Analytics Pipeline, helping to organize world's genomic information with Google Genomics, protecting sensitive data with Cloud Data Loss Prevention, Container-Optimized OS, massive workloads with Cloud Bigtable Database Service, Google Cloud Video Intelligence, running WordPress on App Engine Flexible Environment; GCP security: securing cloud environment, top 3 risks - access, top 3 risks - data, top 3 risks - platform, securing customer data, securing hardware, Cloud Armor, Data Center security layers; GCP support: filing a case with Support Portal, filing a case with Cloud Console, enabling role based support, contacting phone support, granting support roles for GCP users, overview of GCP support, GCP support narrative, GCP support escalations

**Certificate Programme version/revision: EITC/CL/GCPv1r1**

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