



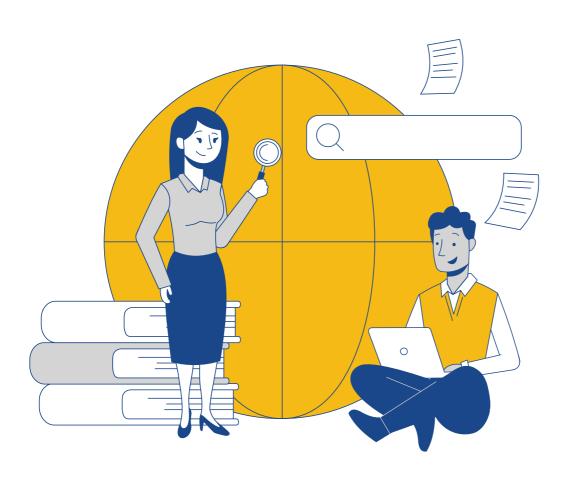
GCP Job Oriented Program

Become a Multi-Skilled GCP Professional and Land High Paying Jobs at Top Companies



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About K21Academy

K21 Academy Founded by Mr. Atul Kumar, an experienced Multi-Cloud & DevOps expert, and author, we have partnered with industry leaders like Oracle (Training Partner) and Microsoft (Silver Partner).

We offer online courses on AWS, Azure, Oracle, Google, DevOps, and Kubernetes with top-notch study material.

Our study materials are comprehensive and up-to-date, covering everything you need to know about Cloud and DevOps technologies.

With over 12,000 individuals already benefiting from our training and securing higherpaying jobs, our community of over 150,000 social media followers trusts us to guide them in their careers.

Our team consists of highly skilled Azure/AWS/Google/Oracle Cloud Engineers, DevOps & Kubernetes Experts, Python & Data on Cloud Architects, and Apps DBAs/DBAs Architects who possess extensive knowledge and expertise in Cloud & DevOps technologies.

Curious to know more about us? Visit our website today www.k21academy.com





Meet your Mentor



You will be mentored by Atul Kumar, the founder of K21 Academy, and his team of MultiCloud experts. Atul has over 20 years of experience in the IT industry.

He began his IT career in 2000 as an Oracle DBA/Apps DBA. The first few years were tough for him, with very little growth. However, in 2005, he transitioned to Oracle Security & IAM, and his career took off. He had a great run for the next 5-6 years, with a lot of growth and opportunity.

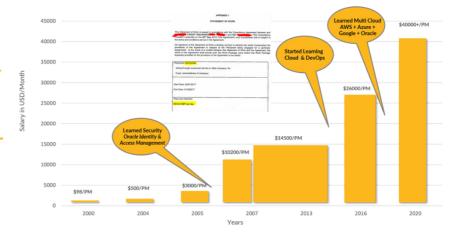
However, around 2012-13, he started to feel stuck. He wasn't learning anything new,

wasn't growing, and wasn't being challenged. At that time, the Cloud was gaining popularity, and Containers (Docker) were emerging, offering many higher-paying job opportunities in those fields.

So, he decided to make a change in his career path and transitioned from working on On-premises (Security, Infrastructure & Databases) to focusing on Cloud & DevOps. Over the next 2 years, he learned about important Cloud platforms like AWS, Azure & Oracle, as well as DevOps. He kept up with the new Cloud-based tools & technologies such as Google Cloud, Docker, Kubernetes, Terraform, Ansible, CI/CD, Jenkins, etc.

Learning Cloud & DevOps gave him the opportunity to work with some of the world's biggest and most prestigious clients such as Toyota, Royal Bank of Scotland, Worldpay, Scottish Government, NHS (United Kingdom), Saudi Railways, datAvail, Tuscan Electric (USA), Oracle, and more.

Atul's Mid-Career Crisis







Welcome to Google Cloud Job Oriented Program, your gateway to unlocking the power of Google Cloud. Our comprehensive training program is designed to equip you with the skills and expertise needed to thrive in today's dynamic cloud computing landscape. Whether you're an aspiring cloud architect, data engineer, machine learning enthusiast, or DevOps professional, our program offers tailored courses to suit your career aspirations.

Why Choose Our Google Cloud Training:

Expert Instructors:

Our instructors bring real-world experience and in-depth knowledge to the training, ensuring you receive top-tier education

Hands-On Learning:

Practical, hands-on labs and projects empower you to apply theoretical concepts in real-world scenarios.

Industry-Relevant Curriculum:

Stay up-to-date with the latest cloud trends and best practices, ensuring your skills remain relevant and in demand.

Certification Preparation:

Prepare with confidence for Google Cloud certifications, enhancing your credibility and employability.

Flexible Learning Options:

Choose from flexible learning modes, including in-person workshops and online courses, to match your schedule and learning style.

Networking Opportunities:

Connect with fellow learners and industry experts, fostering valuable professional relationships.

Career Support:

Benefit from career guidance and resources to help you transition smoothly into cloud-related roles.

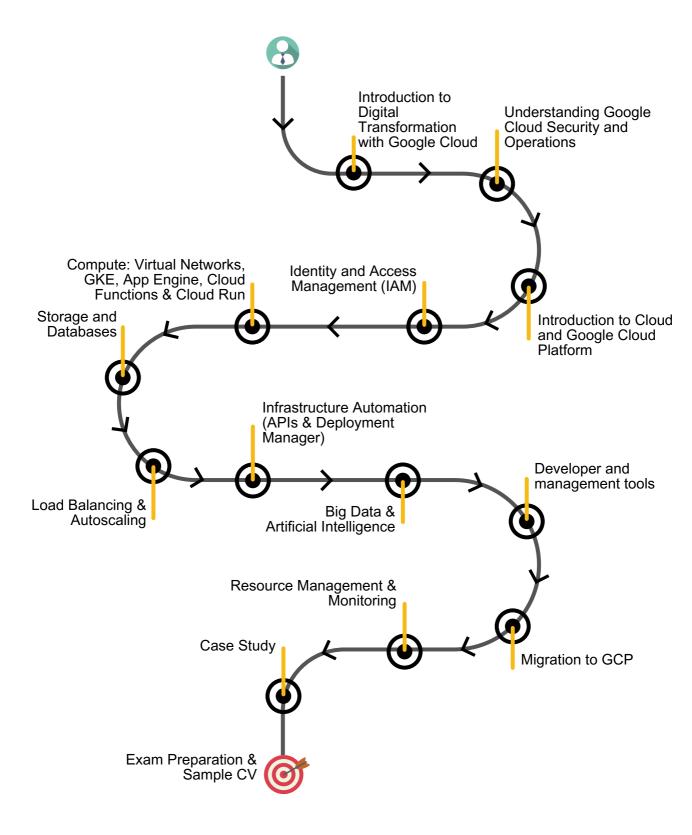
Unlock a world of opportunities with our Google Cloud training program. Join us on a journey of skill acquisition and transformation as you harness the power of cloud technology to shape your future success.

Enroll today and step into a brighter, cloud-powered tomorrow.





Course Curriculum





GCP Job Oriented Program Course Outline

MODULE



Introduction to Digital Transformation with Google Cloud

- Explain why cloud technology is revolutionizing business
- Explain why it is critical for businesses to adopt new technology

2

Innovating with Data and Google Cloud

- Describe the role of data in digital transformation and the importance of a data-driven culture
- Identify common Google Cloud solutions for data management.
- · Identify common Google Cloud solutions for smart analytics.
- · Identify Google Cloud's solutions for machine learning and Al

3

Describe the benefits of using cloud-native applications

- Apply the appropriate change pattern to different business use cases
- Explain the benefits of Google Kubernetes Engine, Anthos, and App Engine for application development

4

Introduction to cloud and Google Cloud Platform

- Cloud Computing Overview and Resource Pooling
- · Cloud Service Model
- · GCP Infrastructure, Regions and Zones
- Resource & Resource Hierarchy
- Way to Interact with Google Cloud Platform
- · Create Google Cloud Free-Trial Account
- GCP Console and Cloud Shell Overview & Navigation
- · Create Project, Set Billing Budget & Alerts



Hands-on-Lab

- · Create Google Cloud Free-Trial Account
- GCP Console and Cloud Shell overview & Navigation
- · Create Project, Set Billing Budget & Alerts

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Identity and Access Management (IAM)

- · Cloud IAM Introduction
- · IAM resources hierarchy, Access control and Policy Inheritance
- Member Account types
- · Service Account
- Roles in IAM
- IAM Best Practices

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- Add an IAM User and Assign User Roles
- · Create and Manage Service Accounts

6

(Compute): Virtual Machines

- · Google Cloud Compute Offerings
- Introduction to Virtual Machines
- · Create and Connect Linux VM (Part 1)
- · Create and Connect Linux VM (Part 2)
- Create and Manage VM Using CLI & Cloud Shell (Part 1)
- Create and Manage VM Using CLI & Cloud Shell (Part 2)
- · Compute Engine and Machine types
- Boot Disk Types, Local Disk Vs Persistent disk
- Compute Engine Use Cases
- · Disks Machine Images & Snapshots
- · Instance Groups & Instance templates

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- · Create and Connect Linux VM through Console
- Create and Connect Windows Virtual Machine Using Google Cloud Console
- Create & Manage VM Using Console and CLI
- · Launch Linux VM through Instance Template
- Create A VM Instance in Compute Engine using the Machine Image
- Deploy Web Application Inside VM
- · Create a snapshot from a VM, view Images & Delete an Image





(Compute): Google Kubernetes Engine

- · Containers Overview
- Container Application (Monolithic and Microservices)
- Kubernetes Overview
- Kubernetes Cluster Overview
- · Overview: Master-Node , Node & Pods
- · Kubernetes Clusters: Regional & Zonal
- Google Kubernetes Engine
- · GKE Deployment

Hands-on-Lab

- · Create and Manage GKE Clusters
- Deploying a Containerized Application to GKE Cluster
- · Orchestrating Cloud with Kubernetes

8

(Compute): App Engine, Functions, Cloud Run

- Module Introduction
- Google App Engine
- App Engine Console Overview
- Cloud Functions
- · Cloud Function Console Overview
- Cloud Run
- · Cloud Pub/Sub
- App Engine Environments

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- Create & Deploy Simple Web Application Using App Engine
- · Deploy Pre-Built Sample Container to Cloud Run
- Create & Deploy Cloud Functions

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Storage and Databases

- Google Cloud Storage Offerings
- Structured Database: Cloud SQL and Cloud Spanner
- · NoSQL Database: Cloud Firestore and Cloud Spanner
- Unstructured Database: Cloud Storage
- · Cloud Storage Storage Classes
- · Lifecycle Management and object Versioning
- Cloud Datastore
- Cloud Bigtable



- Create & Manage Cloud Storage Buckets using Console
- · Create & Manage Cloud Storage Buckets using CLI
- Create & Delete Lifecycle Policies for Cloud Storage Bucket
- Introduction to Google Cloud SQL
- · Perform Simple Operations in Cloud Spanner Using Console
- Create and Manage Cloud Bigtable Instances

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- Create & Manage Cloud Storage Bucket Using Console & CLI
- · Cloud Storage- Protection
- Cloud Storage Permissions
- Cloud Storage-Lifecycle Management
- · Cloud Storage Signed URL
- · Introduction to Google Cloud SQL
- Perform Simple Operations in Cloud Spanner Using Console
- · Create and Manage Cloud Bigtable Instances

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(Networking): Virtual Networks

- Networking Basics
- IP addresses
- · Firewalls , Ingress/Outgress rules , Tags
- · Cloud NAT, Private Google Access
- · Cloud VPC Introduction
- Networks and Subnets
- Routing Tables
- · Network Modes, Default, Auto and Custom
- Introduction to Auto & Custom Mode VPC (Part 1)
- Introduction to Auto & Custom Mode VPC (Part 2)
- Introduction to Auto & Custom Mode VPC (Part 3)
- · Create a Custom Mode VPC Using CLI

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- Create Auto and Custom VPC Using Console
- · Create Auto and Custom VPC Using Console
- · Create Custom Mode VPC Using CLI
- Create Auto & Custom VPC Using Console
- · Create Custom mode VPC Using CLI
- · Create Firewall Rules



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(Networking): Interconnecting Networks

- Interconnecting Network
- Cloud VPN
- · Routes statics and dynamics
- Direct Peering and Carrier Pairing
- Cloud Interconnected Summary
- · Shared VPC Overview
- VPC Peering

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- VPC Peering
- Explore Cloud NAT & Private Google Access

12

(Networking): Load Balancing and Autoscaling

- · Autoscaling and Managed Instance group
- · Load Balancer Overview
- · Global load balancing options
- Internal Load Balancer
- · Load Balancer Flowchart
- Set Up Simple External HTTP Load Balancer
- · Autoscaling in GCP

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- · Set Up Simple External HTTP Load Balancer
- · Autoscaling in GCP

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Big Data

- · BigData Basics, its Evolution, Google's journey with BigData
- BigQuery
- · Big Data Pub/Sub
- · Big Data Dataflow
- Data Analytics
- · Big Data
- BigQuery
- Machine Learning
- Terraform



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- Exploring BigQuery
- · BigQuery Partitioning/Clustering
- Working with Pub/Sub On Google Cloud
- Dataflow
- · Working with Cloud DataProc
- · Working with Google Cloud Fusion Service
- · Working with Google Dataprep on Google Cloud
- · Cloud Composer
- · Working with Data Studio/Looker Studio in GCP

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Artificial Intelligence

- · AI, ML Basics
- · Predefined ML APIs
- · Big Query ML, Al Platform
- · Auto ML Concepts
- · Vertex AI Concepts

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· Big query ML

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Developer and Management Tools

- · Cloud Deployment Manager
- Cloud Operations: Cloud Monitoring Part 1
- · Cloud Operations: Cloud Monitoring Part 2
- · Cloud Operations: Cloud Logging
- · Cloud Operations: Error Reporting
- · Cloud trace, profiler and debugger GCP Operations Suite Worksheet

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- · Terraform with Google Cloud
- · Deployment Manager with Cloud Build

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Migration to GCP

- · (Part 1): Migration Approaches
- · (Part 2): Migration Approaches
- Anthos Concepts



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Infrastructure Automation (APIs and Deployment Manager)

- Infrastructure Automation Overview
- Deployment Manager, Features, Configurations, & Components
- · Images Metadata and Scripts
- · Cloud Composer
- · Cloud Marketplace
- Create Compute Engine VM Using Deployment Manager

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· Create Compute Engine VM Using Deployment Manager

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Design & Process-1 (Defining the Service)

- · Roles and Personas
- · Quantitative Requirements
- · Key Performance Indicator
- SLO, SLI and SLA

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Design & Process-2 (Design for Security)

- Security Fundamentals
- Audit and Compliance
- · Identity Aware Proxy
- · Network Security
- · Encryption and Cloud KMS

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· Encrypt & Decrypt Data Using Cloud KMS

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Case Study Overview

- · Case Study 1: TerramEarth Part 1
- Case Study 1: TerramEarth Part 2
- Case Study 1: TerramEarth Part 3
- · Case Study 2: EHR Healthcare part 1
- Case Study 2: EHR Healthcare part 2
- · Case Study 2: EHR Healthcare part 3
- Case Study 2: EHR Healthcare part 4



- · Case Study 3: Helicopter Racing League Part 1
- · Case Study 3: Helicopter Racing League Part 2
- · Case Study 4: Mountkirk Games Part 1
- · Case Study 4: Mountkirk Games Part 2



Register & Prepare for the Exam

- Exam & Interview Preparation Presentation
- GCP Professional Exam Practice Documents & Questions(Quizzes)
- · GCPPro Exam Prep
- · GCLOUD CHEAT SHEET
- · Additional Materials



GCP Sample Interview Questions

- Google Cloud Architect Sample Interview Questions & Answers
- · Google Cloud Professional Interview Questions & Answers document



Curated Projects (GCP)



Installing WordPress on Compute Engine & Using Cloud Storage Authenticated URLs for Image

This project involves building a WordPress website using the GCP Console. WordPress is a popular content management system that powers millions of websites, and GCP provides a scalable and reliable platform for hosting WordPress sites. This project is useful for bloggers, small businesses, and anyone who wants to learn how to build and host a WordPress site on GCP.

GitOps-style Continuous Delivery with Cloud Build

To create a CI/CD pipeline that automatically builds a container image from committed code, stores the image in Container Registry, updates a Kubernetes manifest in a Git repository, and deploys the application to Google Kubernetes Engine (GKE) using that manifest.



Features and Perks



Live Interactive Sessions from GCP Experts

Learn from the best in the industry with live sessions from GCP experts. They will share their expert tips and tricks, and answer all of your questions.



Industry In-Demand Projects and Hands-on Labs

Get hands-on experience with industry in-demand projects and hands-on labs. This will give you the skills you need to succeed in the job market.



1 year unlimited retakes

You can rewatch the live sessions and retake the labs for up to 1 year after the program ends. This gives you plenty of time to learn and practice at your own pace.



1year on-job support

Get help on your job work for 1 year after completing the program.



WhatsApp support & ticketing system

Get help from our team of experts via WhatsApp or our ticketing system. We are always available to answer your questions.



Mock Interviews

We'll also do mock interviews so you can practice.





Master Your Chosen Certification: Study Materials and Exam Prep for Success

You can choose any one certification from our list, and we'll provide you with the necessary study materials & exam preparation kit with multiple sample exam question set (200+ questions with explanation to answers) focused on that certification so you can pass it.

- · Google Cloud Digital Leader
- Google Cloud Associate Cloud Engineer:
- Google Cloud Professional Cloud Architect



60-day Money-back Guarantee

If you don't get a job offer after completing all of the activity labs and projects, you can get a full refund. To qualify for a refund, you must provide proof that you have applied to at least 50 jobs (we will help you with the job search & application) and have not received an offer from any of them.



Who is this Program for?



The GCP Job-Oriented Program is for anyone who wants to:

- Get a higher paying job in the Google Cloud area
- Get industry-leading guidance from top experts
- Perform industry-demanded projects and add them to their CV
- Gain hands-on experience in Google Cloud technologies

Specifically, the program is for:

- Freshers or new to IT who want to build a career in high-paying IT Cloud jobs.
- Those who manage and organize databases (where information is stored).
- Companies with a significant presence in google Cloud Infrastructure who want to train their employees to effectively manage and utilize these resources.
- Individuals transitioning from a different field to IT/cloud computing who want to quickly gain practical skills to enter the job market.
- IT professionals working on-premise (Unix / Linux/ Windows, networks, storage, databases, VMware, testing, containers, Kubernetes, sysadmins, administrators, developers, support, operations, DevOps, architects, or technical managers)



Success Stories



Warrenin

I was working as a network engineer for a while that's when my interest in AWS started; while researching online, I came across a few platforms; that's when I discovered K21Academy, I watched a few videos before confirming my decision to take up the training.

My experience with K21Academy was very positive; the trainers and the team members are very skilled. Having a tutelage of a skilled trainer helped me keep accountability and structure to the learning process.



Irina Cretan in

The Live Session organized by the K21Academy, covered technical concepts in-depth and that made it easy and accessible for people like me who come from a non-technical background. the learning and certification definitely help me in my regular tasks at the job, where I am able to practically implement all the learnings. I have already recommended K21Academy amongst my peers



Farhan Baboojee in

I was surprised as the training material was provided to us with study material to prepare ourselves prior to the course start. When I joined K21Academy, I was very impressed with how they choose technology to connect to students. The training provided by the trainer was excellent and in-depth for a student to grasp the concept and make sure helshe understood the theory behind an algorithm.





Semanti in

The best trainers, quality and professional teaching is what attracted me to continue Azure Data Engineer and Azure Data Fundamentals course with K21Academy. Initially I was lagging behind but K21 cleared all our basics first and made everything easier. Even when I was searching for a job, Atul gave some very helpful suggestions. I could easily pass my Azure Data Fundamentals exam with the study material provided by K21 Academy.



Sanjay

Working as an IT professional, one always needs to be updated with the latest technological changes. After having a few years of experience, I decided to upgrade myself. My company manager suggested to me the K21Academy study for AWS Cloud.

I had a fantastic experience with K21Academy; the study material is perfectly curated, the trainers are skilled, and the support staff is quick to answer.



Satyendra Yadav ⁱⁿ

From struggling to enhance my knowledge and skillset on Cloud, to being confident to work on multi-cloud projects, K21Academy made it all possible!

I attended a FREE Class organized by K21 Academy and finally found the correct place to learn.

I instantly enrolled for OCI Architect training, it was conducted well and the trainer was amazing. Also, Atul Kumar is always there to pitch in and render his support and help along with prompt support from the team.



Our Happy Customers



Witness the triumph of our esteemed customers as they embark on remarkable career journeys, securing coveted roles within renowned companies. Their success stories stand as a testament to the transformative power of our educational programs, providing the skills and knowledge needed to thrive in today's competitive job market. Join our community of achievers and unlock your path to professional excellence, paving the way for a future filled with boundless opportunities and personal growth.

THANK

www.k21academy.com

Need more insights?

Speak with our Career Counsellor for a detailed overview of GCP Job Oriented Program.

Schedule a Call (>)









