Global Knowledge®

CLOUD DELIGHTS

- ENJOY MULTI CLOUD EXPERIENCE

Disclaimer

All trademarks and logos displayed in this presentation are the trademarks and logos of their respective owners, and constitute neither an endorsement nor a recommendation of those organizations. In addition, such use of trademarks, logos or links to the web sites of third-party organizations is not intended to imply, directly or indirectly, that those organizations endorse or have any affiliation with GK. These are used for representative purposes only.

About Us

Global Knowledge" is headquartered out of Cary, North Carolina in the US of A. Since its conception in 1995 we have expanded our reach across 15 offices worldwide. "Global Knowledge Technologies" is our entity based out of India and has been a part of the Training environment since 2002.

Quick Facts:

- World's largest dedicated IT Training company.
- 5000+ guaranteed to run classes per year.
- 3000+ unique IT training offerings.
- 1100+ subject matter experts.
- Consistent 95% overall student satisfaction.
- Authorized training partners for Amazon Web Services, Alibaba,Blockchain, Cisco, IBM, Google, ITIL, Microsoft, MuleSoft, RedHat, Tableau and more.

We at GKT ardently believe that keeping up with the technology trends is the key to successful careers. Students and faculty members equipped with top technical skills can bring a significant "Impact" at their future workplaces and overall teaching-learning process respectively - An impact that GKT can support you through a range of Strategic focused programs on Multi Cloud Platform, Data Science, Machine Learning & AI, Internet of Things (IoT), DevOps, Business Analytics, Blockchain & Cloud Integration. Technologies that are here to stay and rule the world for the next decade.

Awards & Recognition:

- 2019: Microsoft - Learning Partner of the Year.
- 2019: Red Hat's Fastest Growing Training Partner.
- 2018: CISCO – Learning Partner of the Year.

TRAINED OVER 1 Lakhs+ PROFESSONALS WORLD WIDE

REACH ACROSS 50+ COUNTRIES

UNIQUELY BUILT TRAINING CONTENT TO PREPARE FOR CERTIFICATION

OVER 2050+ PROFESSONALS CERTIFIED IN INDIA

OVER 90% OF OUR PARTICIPANTS ARE FROM THE CORPORATE SECTOR

CERTIFICATION PASS RATE OF OVER 96.2%

Delivery Methodologies

CLASSROOM LEARNING

DIGITAL LEARNING

BLENDED LEARNING

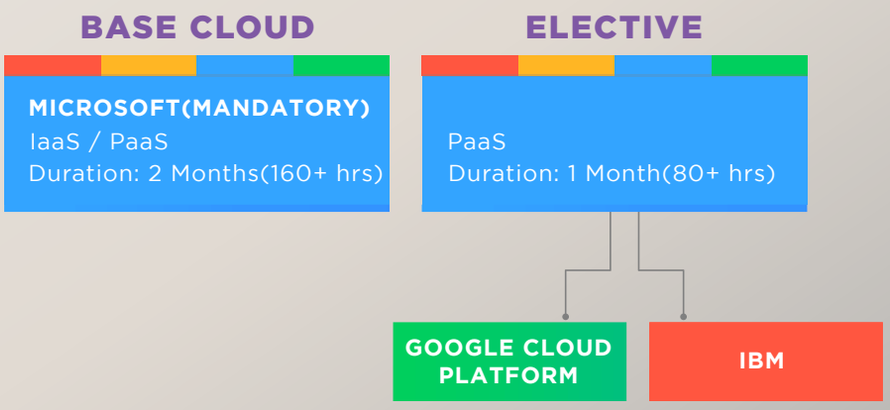
About the Track

01 Cloud is the new rage and is one of the fast-paced emerging technology in the IT landscape generating numerous career opportunities. Our cloud training is designed as a multi cloud training option with a mandatory course on Microsoft and electives in the form of GCP & IBM.

02 Our Intensive training program spanning over 200 + hours of theorical and hands on training along with the Project enables the students to kick start an outstanding career as a skilled “Cloud Professional”.

Key Features

- Industry Recommended Learning path for Students
- Access to 200+ hours of interactive learning, case study and project execution on CloudLabs
- Over 14+ Modules
- Certified Industry expert trainers
- Corporate recognized “Master Certificate” on course completion.



Learning Path

Microsoft

Introduction

Azure Fundamentals

Azure Virtual Machines and Networking

Azure Storages

Azure TrafficManagement

Azure Security

Azure Backup and Monitoring

Develop Azure Solutions for Platform as a Service

Azure Database using different storages

Develop Infrastructure Solution for Developers

Connectivity to Azure Services and Third Party Services

Azure PaaS Security

Devleop Azure Cognitive Service, Bot and IoT Solutions

Azure Monitoring Solutions and Troubleshooting

AZURE CLOUD SPECIALIST

Google Cloud

Best Practice for Application Development

Client Libraries and SDKs

Data Storage Options

Best Practices for Using Cloud Datastore

Performing Opertions on Cloud Storage

Best Practices for Using Cloud Storage

Handling Authentication Authorization

Using Pub and Sub to Integrate Components of your Application

Adding Intelligence to your Application

Using Cloud Functions for Event Driven-Processing

Managing APIs with Cloud Endpoints

Deploying Applications

Execution Environments for your Application

Debugging, Monitoring, and Tuning Performance

CLOUD APPLICATION DEVELOPER

IBM

Overview of Cloud Computing

Hosting Cloud Applications

Planning Cloud Application

Designing and Developing Cloud ready Applications using Managed Services

Managing a running Cloud Application

Data Services

Devops and Continuous Delivery

Security & Integeration

CLOUD APPLICATION DEVELOPER

About the Course

The Cloud Infrastructure administrator career path prepares students to Install and configure the Cloud Management application.

The Cloud Application Developer career path prepares students to develop, build, deploy, and test applications using various cloud platform to build Software as a Service (SaaS) solutions.

Recommended learning path

Microsoft

Contd...

Week 1 — 16hrs

Introduction

- Introduction to Cloud Computing
- Why Cloud Computing
- Components of Basic Cloud service and working nature
- Top Benefits of Cloud Computing
- Cloud Computing Types
- Types of Cloud services
- Virtualization and Cloud Computing
- Grid Computing Vs Cloud Computing
- Utility Computing Vs cloud Computing
- Security Concerns for Cloud Computing
- Privacy Concerns and Compliance

Week 2 — 8hrs

Azure Fundamentals

Cloud ComputingConcepts, Basics of Azure Cloud computing, Azure Services, Azure Security and Compliance, Azure Pricing and Support

Week 2 — 11hrs

Azure Virtual Machines and Networking

Creating, Planning of Virtual Machines, VM Availability and Extensions, IP Addressing and End Points, Azure DNS, NATing, Network Security groups, Port configurations Creation of Vnet

Week 3 — 11hrs

Azure Storages

Azure Storage Accounts Azure Blob Storage, Azure File Storage, Azure Queue Storage, Azure Table Storage, Azure Storage security

Week 3 — 8hrs

Azure Traffic Management

Network routing, Azure Auto-scaling and policies, Azure Load Balancer and types, Azure Traffic Manager with endpoints

Week 4 — 10hrs

Azure Security

Introduction to Azure Active Directory, Azure AD connects and Join, Security Identities – Multifactor authentications, Azure ID protections & Password reset, Governance and Compliance – Subscriptions & Accounts and RBAC, Security Policies- User and Groups

Week 4 — 10hrs

Azure Backup and Monitoring

Azure Alerts & Monitoring,Log Analytics and network watcher, Data Replication-Mirroring, Read Replica, Availability set , Backup – VM, Files & Folders, Data Services - CDN & File Sync, Import and Export services, Chat box

LABS **ASSESSMENT** **CASE STUDY**

* "Instructor led" will be approx 4 hours per day.

Recommended learning path

Week 5 — 16hrs

Develop Azure Solutions for PaaS

Azure App Service for Web App, Azure App Service for Mobile App, Azure App service for API App, Implement Azure Functions, App Service Creation for Logic Apps

Week 6 — 13hrs

Azure Database using different storages

Blob Storage Solutions, Table Storage Solutions,File Storage Solutions, Relational Database Solutions, Cosmos DB Solutions

Week 6 — 10hrs

Develop Infra structure solution for Developers

Implementing Solutions for Virtual Machine, Azure Batch Services, Azure Containerized solutions

Week 6 — 7hrs

Connectivity to Azure Services and Third party services

Integration of Azure search with solutions, Event Based solutions, Message Based Solutions

Week 7 — 7hrs

Azure PaaS Security

Implementation of Security, Access Control – Claims & Role, Secure Data Solutions

Week 7 — 7hrs

Devleop Azure Cognitive Service, Bot and IoT Solutions

Azure Cognitive Services, Create and Integrate Bots,IoT Solutions

Week 7

Azure Monitoring Solutions and Troubleshooting

Auto-Scaling for Apps and Services, CDN and Caching, Solutions for Monitoring and Logging

LABS **ASSESSMENT** **CASE STUDY**

* "Instructor led" will be approx 4 hours per day.

Google Cloud

About the Course

The Google Cloud Application development course ensures the student understand how to use key GCP services from the start through hands on labs, demos and by doing projects to develop, build, deploy and test applications.

Key Features

- Industry Recommended Learning path for Students
- Access to 80+ hours of interactive learning, case study and project execution on CloudLabs
- Over 14+ Modules
- Certified Industry expert trainers
- Certification focused objectives
- Corporate recognized “Master Certificate” on course completion.

Recommended learning path

Google Cloud

Week 1 — 2hrs

Best Practices for Application Development

Cloud Storage, Cloud pub/sub, Cloud Functions,
Cloud Datastore, Cloud CDN, Stackdriver logging, Stackdriver Monitoring

Week 1 — 4hrs

Client Libraries and SDKs

Cloud Client Libraries, Cloud SDK, Firebase SDK

Week 1 — 5hrs

Data Storage Options

Cloud Storage, Cloud Datastore, Cloud Bigtable, Cloud SQL, Cloud Spanner Bigquery, Cloud SQL Proxy

Week 1 — 4hrs

Best Practices for Using Cloud Datastore

Cloud Datastore, Cloud Bigtable

Week 1 — 4hrs

Performing Operations on Cloud Storage

Cloud Storage

Week 2 — 2hrs

Best Practices for Using Cloud Storage

Cloud Storage

Week 2 — 4hrs

Handling Authentication Authorization

Cloud IAM, Firebase SDK

LABS **ASSESSMENT** **CASE STUDY**

* "Instructor led" will be approx 4 hours per day.

Recommended learning path

Week 2 — 3hrs

Using Pub/Sub to Integrate components of your Application

Cloud pub/sub, Cloud Datastore, Cloud Bigtable, Cloud Dataflow, Cloud Monitoring

Week 2 — 4hrs

Adding Intelligence to your Application

Vision API, Speech API, Video Intelligence API, Translation API, Natural Language API

Week 2 — 4hrs

Using Cloud Functions for Event Driven Processing

Cloud Functions, Stackdriver Error Reporting, Stackdriver Logging

Week 3 — 5hrs

Managing APIs with Cloud Endpoints

Cloud Endpoints

Week 3 — 6hrs

Deploying Applications

Container Builder, Container Registry, Deployment Manager

Week 3 — 5hrs

Execution Environments for your Application

Compute Engine, Kubernetes Engine, App Engine Flexible Environment, Cloud Functions, Cloud Dataflow

Week 3 — 5hrs

Debugging, Monitoring, and Tuning Performance

Stackdriver Logging, Stackdriver Monitoring, Stackdriver Trace

LABS **ASSESSMENT** **CASE STUDY**

* "Instructor led" will be approx 4 hours per day.

About the Course

The Cloud Application Developer career path prepares students to develop, build, deploy, and test applications using IBM cloud platform to build Software as a Service (SaaS) solutions.

Key Features

- Industry Recommended Learning path for Students
- Access to 80+ hours of interactive learning, case study and project execution on CloudLabs
- Over 08+ Modules
- Certified Industry expert trainers
- Certification focused objectives
- Corporate recognized “Master Certificate” on course completion.

Recommended learning path

Contd...

Week 1 7hrs

Overview of Cloud Computing

- What is Cloud Computing
- On-Premises Vs Cloud Computing
- Various Cloud Service Providers

Week 1 7hrs

Hosting Cloud Applications & Module

- Describe Cloud service models and IBM Cloud offerings
- Describe the different capabilities of IBM Cloud
- Understand the capabilities of rapid application development and deployment using boilerplates and managed services

Week 1 6hrs

Planning Cloud Application

- Describe the organization management elements in IBM Cloud computing platforms : Orgs, Spaces, Users, Domains and Quota
- Use the IBM Cloud command line tool (CLI) to manage applications on selected IBM Cloud computing platforms

Week 2 8hrs

Designing and Developing Cloud ready Applications using Managed Services

Understand how to design, develop, deploy and manage an IBM Cloud application following the Twelve-Factor App methodology (http://12factor.net/)

- Apply selected IBM Cloud Reference Architectures for Cloud Native Applications
- Describe the advantages of serverless computing which can be considered when designing, deploying and managing IBM Cloud Applications
- Describe the advantages of serverless computing which can be considered when designing, deploying and managing IBM Cloud Applications

Week 2 8hrs

Managing a running Cloud Application

- Monitoring cloud application
- Adding autoscaling
- Load testing

LABS **ASSESSMENT** **CASE STUDY**

* “Instructor led” will be approx 4 hours per day.

Recommended learning path

Week 3 7hrs

Data Services

- Different Data service types available in IBM Cloud
- IBM Cloudant Database

Week 3 8hrs

Devops and Continuous Delivery

- DevOps Introduction
- Understand the Garage Method Phases and Practices
- Understand the capabilities of IBM Cloud Continuous Delivery and the Delivery Pipeline

Week 4 6hrs

Security & Integeration

- Add Single Sign-On capabilities to an application
- Perform Hybrid Cloud Integration
- Enable loosely coupled integration using Messaging Services
- Improve performance and scalability of IBM Cloud Applications with Caching

LABS **ASSESSMENT** **CASE STUDY**

* “Instructor led” will be approx 4 hours per day.

Tools Covered

Cloud Environment	Azure, Google Cloud, IBM Cloud
Programming Tools	Java, PowerShell
Environment	docker, CLI
Open Source and IDE Tools	Jenkins, git, node JS, ANACONDA

Projects

- Journey Planner with Cloud
- Scaling the Unbounded Traffic of Data Intensive real time Application
- Sentiment Analysis for online product review.
- Recommendation system for social media apps
- Server less chat application with Micro services
- Predicting upcoming earthquake with frequency data
- Lake monitoring system (works with real time sensor data)
- Predicting insurance claim with damage analysis with uploaded pictures
- Firewall implementation between regions using WLAN connectivity
- Auto Scaling Implementation and configuration using Load Balancer

Note : Project will be approx 60+hrs

Global Knowledge®

USA

9000 Regency Parkway,
Suite 400 Cary, NC 27518

SINGAPORE

300 Tampines avenue 5,#09-02
Singapore-529653
Phone No: +65 6588 2456

INDIA - BANGALORE

Raja Sabha, #35, 2nd Floor,
Kasturba Cross Road, off Lavelle Road,
Bangalore - 560001
Phone No: 91-80-43003611

CHENNAI

DBS Business Centre,
31-A Cathedral Garden Road, Nungambakkam,
Chennai - 600034
Phone No: +91-81054 82945