Google Certified

Associate Cloud Engineer

Batch-2011 | Moon International Karachi Pakistan

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Lesson Plan

1. Introduction & Overview

    1.1.   Group Introduction

        1.1.1.   About Us

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1.1 Group Introduction

1. Name

2. Organization

3. Last Education

4. Why you want to learn this course

5. Your Expectations from us

1.1.1   About Us

1.   About Me

2.   About Institute

3.   Other Courses

1.2 Course Introduction

Total Sessions   :   10

Class Days   :   Mon - Fri

Class Time   :   12:00 PM to 1:00 PM

1.2.1 Course Prerequisites

AWS Account   :   Free Trial Account (Credit Card Required)

Computer   :   PC / MAC / Laptop

Operating System   :   Linux / Mac / Windows

Ram   :   Min 2 GB

Internet

Your own domain name (optional, but recommended)

1.2.2   Eligibility Criteria

Absolute Beginners. No prior experience necessary

Existing Solutions Architects

Programmers Interested in Deploying Applications on Cloud

People interested in hosting highly scalable, fault tolerant applications (such as Wordpress and Joomla) on the cloud.

Programming Experience   :   Not required

System Engineer Experience :   Not required

1.2.3   After completing this course

- Pass the Associate Cloud Engineer Exam
- Become Intimately Familiar With The GCP Platform
- Become A Cloud Engineer
- Design Highly Resilient and Scalable Websites on GCP
- Become Google Cloud Certified

Solution architecture is a practice of defining and describing an architecture of a system delivered in context of a specific solution and as such it may encompass description of an entire system or only its specific parts.

Definition of a solution architecture is typically led by a solution architect

SOLUTION ARCHITECT ROLE

Responsibilities	✓ Analyzing technology environment ✓ Analyzing enterprise specifics ✓ Analyzing requirements ✓ Setting collaboration framework ✓ Creating a solution prototype ✓ Participating in technology selection ✓ Solution development control ✓ Project management support
Experience	✓ At least eight years of working experience in one or multiple IT areas ✓ IT infrastructure and cloud development ✓ Engineering and software architecture design ✓ Business analysis ✓ DevOps ✓ Project and product management
Personal Attributes	✓ Excellent communication skills ✓ Deep analytical skills ✓ Project and resource management skills ✓ Work collaboratively ✓ Influence and negotiate

1.3.1   Certification exam overview *

An Associate Cloud Engineer deploys applications, monitors operations, and manages enterprise solutions. This individual is able to use Google Cloud Console and the command-line interface to perform common platform-based tasks to maintain one or more deployed solutions that leverage Google-managed or self-managed services on Google Cloud.

The Associate Cloud Engineer exam assesses your ability to:

★   Set up a cloud solution environment

★   Plan and configure a cloud solution

★   Deploy and implement a cloud solution

★   Ensure successful operation of a cloud solution

★   Configure access and security

1.3.2 About this certification exam *

The Associate Cloud Engineer exam assesses your ability to:

★ **Length**: 2 hours

★ **Registration fee**: $125 (plus tax where applicable)

★ **Languages**: English, Japanese, Spanish, Portuguese, French, German, and Indonesian.

★ **Exam format**: Multiple choice and multiple select, taken in person at a test center. Locate a test center near you.

★ **Prerequisites**: None

★ **Recommended experience**: 6 months+ hands-on experience with GCP

1.3.3   Certification exam guide *

An Associate Cloud Engineer deploys applications, monitors operations of multiple projects, and maintains enterprise solutions to ensure that they meet target performance metrics. This individual has experience working with public clouds and on-premises solutions. They are able to use Google Cloud Console and the command-line interface to perform common platform-based tasks to maintain one or more deployed solutions that leverage Google-managed or self-managed services on Google Cloud.

1. Setting up a cloud solution environment
2. Planning and configuring a cloud solution
3. Deploying and implementing a cloud solution
4. Ensuring successful operation of a cloud solution
5. Configuring access and security

1.3.4   Hands-on practice

This exam is designed to test technical skills related to the job role. Hands-on experience is the best preparation for the exam. If you feel you may need more experience or practice, use the hands-on labs available on Qwiklabs as well as the GCP free tier to level up your knowledge and skills.

1. [GCP free tier](#)

2. [GCP always free products](#)

3. [GCP essentials quest](#)

4. [Cloud engineering quest](#)

1.4   Introduction to Google Cloud Platform

Suite of cloud computing services that runs on the same infrastructure that Google uses internally for its end-user products, such as Google Search and YouTube

Alongside a set of management tools, it provides a series of modular cloud services including computing, data storage, data analytics and machine learning

Google Cloud Platform provides infrastructure as a service, platform as a service, and serverless computing environments.

In April 2008, Google announced App Engine, a platform for developing and hosting web applications in Google-managed data centers, which was the first cloud computing service from the company

1.5   Introduction to GCP Products & [Services](#)

- Computing and hosting

- Storage

- Databases

- Networking

- Big data

- Machine learning