



**GLOBAL
INDUSTRIES
INTELLIGENCE**

AWS CERTIFIED

CLOUD PRACTITIONER

COURSE OUTLINES

The **AWS Certified Cloud Practitioner** course is designed to provide individuals with a comprehensive understanding of Amazon Web Services (AWS) and prepare them for the AWS Certified Cloud Practitioner exam. The course focuses on fundamental cloud concepts, AWS core services, security, architecture, pricing, and billing. Participants will learn how AWS works, how to deploy basic services, and how to utilize AWS's cloud offerings effectively for businesses.

The AWS Certified Cloud Practitioner certification is ideal for individuals looking to gain foundational knowledge of the AWS cloud platform, including non-technical professionals such as business analysts, project managers, and marketers, who are involved in AWS projects.

DAY 1: INTRODUCTION TO AWS AND CLOUD COMPUTING

- **Overview of Cloud Computing and AWS**

- Introduction to Cloud Computing: Definition, deployment models (Public, Private, Hybrid), and advantages
- Overview of AWS: What AWS is, core components, and AWS global infrastructure (Regions, Availability Zones)
- Benefits of using AWS: Scalability, reliability, security, and cost-efficiency
- Key AWS Services: Compute (EC2), Storage (S3), Networking (VPC), Databases (RDS), and others

- **AWS Cloud Architecture and Security**

- Understanding the AWS Shared Responsibility Model: Security in the Cloud vs. Security of the Cloud
- Basic AWS Security Tools and Best Practices
- Introduction to IAM (Identity and Access Management) and managing user access
- AWS Security and Compliance: AWS Well-Architected Framework, compliance certifications (GDPR, SOC, etc.)

- **AWS Core Services Overview**

- Compute Services: EC2 (Elastic Compute Cloud), Lambda (Serverless)
- Storage Services: S3 (Simple Storage Service), EBS (Elastic Block Store)
- Networking Services: VPC (Virtual Private Cloud), Route 53 (DNS)
- Database Services: RDS (Relational Database Service), DynamoDB (NoSQL)
- Additional AWS services: AWS CloudWatch, AWS CloudTrail, and AWS Elastic Beanstalk

DAY 2: AWS PRICING, BILLING, AND CLOUD ECONOMICS

- **AWS Pricing Models and Cost Management**

- Overview of AWS Pricing Models: On-demand, Reserved, Spot Instances, and Savings Plans
- Cost estimation with AWS Pricing Calculator
- AWS Free Tier and how to get started with minimal cost



- **AWS Billing and Cost Management Tools**

- AWS Cost Explorer: Visualizing and tracking usage and costs
- AWS Budgets: Setting budgets and managing alerts
- AWS Billing and Cost Management Dashboard
- Introduction to AWS Marketplace for cost-effective solutions

- **AWS Support Plans**

- Overview of AWS Support Plans: Basic, Developer, Business, and Enterprise support plans
- Benefits and use cases for each support level
- How AWS Support integrates with your services

- **Overview of AWS Pricing and Billing Services**

- Detailed breakdown of services that can impact pricing (compute, storage, data transfer)
- How to calculate and manage the cost for different AWS services
- Managing billing and invoicing in AWS accounts

DAY 3: AWS CLOUD ADOPTION, ARCHITECTURE, AND EXAM PREPARATION

- **Cloud Adoption and Architecture**

- Key AWS architectural principles: Reliability, security, performance efficiency, cost optimization
- Introduction to the AWS Well-Architected Framework: Pillars of the framework (Operational Excellence, Security, Reliability, Performance Efficiency, and Cost Optimization)
- AWS Cloud Adoption Framework (AWS CAF): Organizational and technical considerations for migrating to the cloud
- Designing scalable and high-availability architectures in AWS

- **Case Studies and Use Cases**

- Real-world examples of AWS implementations: How businesses use AWS to optimize their operations

- Analyzing case studies from different industries: Healthcare, finance, retail, etc.
- Best practices for architecting in AWS based on the Well-Architected Framework
- **Exam Preparation and Practice Questions**
 - Reviewing the AWS Certified Cloud Practitioner exam blueprint
 - Key topics to focus on for the exam: Cloud concepts, AWS core services, security, pricing, and billing
 - Exam tips and strategies for successPractice questions and mock exams to familiarize participants with the exam format
- **Target Audience:**
 - Individuals who are new to the cloud or AWS
 - Business professionals such as project managers, marketers, and analysts looking to gain a basic understanding of AWS
 - Non-technical professionals looking to understand how AWS can be leveraged or business benefits
 - Anyone preparing for the AWS Certified Cloud Practitioner exam



- **Learning Methodology:**

- The course combines theoretical concepts with practical demonstrations and hands-on labs. Participants will gain a foundational understanding of AWS services and tools through visual explanations, real-life examples, and practice exercises. Interactive discussions, case studies, and mock exams will help prepare participants for the AWS Certified Cloud Practitioner exam.

- **By the end of this course, participants will be able to:**

1. Understand basic cloud computing concepts and AWS infrastructure.
2. Navigate the AWS Management Console and understand core AWS services (Compute, Storage, Networking, etc.).
3. Recognize AWS pricing models and tools to manage and monitor cloud costs.
4. Understand AWS security and compliance frameworks.
5. Prepare for and pass the AWS Certified Cloud Practitioner exam.