

## AWS Migration Essentials

**Course Duration: 8 Hours**

**Course Code: AWS-MIG-101**

### 1. Course Overview

The AWS Migration Essentials course is designed to provide participants with a comprehensive understanding of migrating applications, workloads, and data to the AWS cloud. This course covers key migration strategies, best practices, and the tools required to ensure a seamless migration process. Participants will gain practical insights into planning, executing, and managing cloud migrations while minimizing risks and optimizing performance.

### 2. What You'll Learn:

- Understand the fundamentals of cloud migration and AWS cloud infrastructure.
- Explore AWS migration tools and services such as AWS Migration Hub, AWS Application Migration Service, and AWS Database Migration Service.
- Learn best practices for planning, executing, and monitoring migrations.
- Gain practical knowledge on assessing workloads, selecting the right migration strategy, and optimizing resources.
- Identify common challenges in cloud migration and strategies to overcome them.

### 3. Target Audience:

- IT professionals, cloud engineers, and system administrators looking to enhance their cloud migration skills.

- Solution architects and consultants involved in planning and executing cloud migrations.
- Organizations and teams considering moving workloads to AWS for improved scalability and efficiency.

## 4. Pre-Requisites:

- Basic understanding of cloud computing concepts.
- Familiarity with networking, servers, and storage concepts.
- No prior AWS experience is required, but basic knowledge of AWS services is beneficial.

## 5. Course Content:

### Module 1: Introduction to Cloud Migration

- Overview of cloud adoption trends
- Benefits and challenges of cloud migration

### Module 2: AWS Migration Strategies

- Rehost, Replatform, Repurchase, Refactor, Retire, Retain
- Choosing the right migration strategy

### Module 3: AWS Migration Tools

- AWS Migration Hub
- AWS Application Migration Service
- AWS Database Migration Service

### Module 4: Planning Your Migration

- Workload assessment and discovery
- Migration readiness evaluation
- Cost estimation and budgeting

## **Module 5:** Executing and Monitoring Migrations

- Migration execution best practices
- Monitoring and validating migrated workloads
- Troubleshooting common migration issues

## **Module 6:** Post-Migration Optimization

- Performance tuning and resource optimization
- Security and compliance considerations
- Migration lessons learned and best practices

