**AWS 120 hours course outline**

Module 1: Introduction to AWS (6 hours)

* Introduction to cloud computing and AWS
* Overview of AWS services and solutions
* Creating an AWS account and understanding billing
* Introduction to the AWS Management Console

Module 2: AWS Fundamentals (8 hours)

* Understanding the AWS global infrastructure
* Overview of AWS Identity and Access Management (IAM)
* AWS Security and Compliance best practices
* Introduction to the AWS Well-Architected Framework

Module 3: Compute Services (20 hours)

* Amazon Elastic Compute Cloud (EC2) and EC2 instances
* EC2 Auto Scaling and Load Balancing
* AWS Lambda serverless computing
* Containerization with Amazon Elastic Container Service (ECS) and Amazon Elastic Kubernetes Service (EKS)

Module 4: Storage and Content Delivery Services (12 hours)

* Amazon Simple Storage Service (S3) and S3 storage classes
* Amazon Elastic Block Store (EBS) and Elastic File System (EFS)
* Amazon Glacier for archival storage
* Content Delivery with Amazon CloudFront

Module 5: Networking and Security Services (16 hours)

* Amazon Virtual Private Cloud (VPC) and VPC networking
* Security groups, network ACLs, and AWS WAF
* AWS Direct Connect and VPN connectivity
* DNS management with Amazon Route 53

Module 6: Database Services (16 hours)

* Amazon Relational Database Service (RDS)
* Amazon DynamoDB NoSQL database
* Amazon Redshift data warehousing
* In-memory caching with Amazon ElastiCache

Module 7: Management and Monitoring Services (12 hours)

* AWS CloudWatch monitoring and alarms
* AWS CloudTrail for auditing and compliance
* AWS Systems Manager for resource management
* Infrastructure as Code with AWS CloudFormation

Module 8: Application Integration Services (8 hours)

* Amazon Simple Queue Service (SQS)
* Amazon Simple Notification Service (SNS)
* Amazon Simple Workflow Service (SWF)
* AWS Step Functions for workflow orchestration

Module 9: Security and Compliance (10 hours)

* Advanced IAM features and best practices
* AWS Key Management Service (KMS) for encryption
* AWS Secrets Manager for secrets management
* Compliance and auditing with AWS Config and AWS Security Hub

Module 10: Designing AWS Architectures (14 hours)

* Understanding architectural best practices
* High availability and fault tolerance in AWS
* Scalability and elasticity in AWS architectures
* Data storage and management strategies in AWS

Project : (10 hours)

* Project Title: High Availability and Fault Tolerant Application Deployment on AWS  
  Project Overview: This project aims to deploy a highly available and fault-tolerant application on AWS using various services and architectural patterns. The goal is to ensure that the application remains accessible and operational even in the face of infrastructure failures or disruptions. The project will utilize services such as Amazon EC2, Elastic Load Balancer (ELB), Amazon RDS, and Auto Scaling to achieve high availability and fault tolerance.

Please note that the distribution of hours can be adjusted based on the specific needs and pace of the course. Additionally, hands-on labs, real-world use cases, and practical exercises should be incorporated throughout the course to provide a hands-on learning experience.