**Modules of AWS Solutions Architect SAA C02**

**Module -1 Introduction to AWS**

* **Introduction to Cloud Computing**
* **Introduction to AWS**

**Module 2 – IAM (Identity and Access Management)**

* **Creating IAM users and groups**
* **Creating IAM groups and assigning group level permissions**
* **Creating IAM Roles**
* **Accessing Bucket via single user restrict**
* **Read/Write permissions to users and groups**
* **Multifactor Authentication using Microsoft Authentication**

**Module 3 - EC2 (Elastic Cloud Computing)**

* **Creating Microsoft and Linux machines in particular region**
* **Accessing instances with RDP & SSH**
* **Configuring security groups**
* Creating instances with multiple NIC cards
* **Creating tags for consistency**
* **Creating EC2 key pair**
* Connecting EC2 Linux machine using p-agent
* **Creating EBS Volume**
* **Creating EBS Snapshots**
* **Migration of instances (region to region)**
* **Migration of Instance (One account to another account)**

**Module 4 – VPC (Virtual Private Cloud)**

* **Understanding sub netting concept**
* **Managing default subnet, route table**
* **Creating new VPC, Subnet, Route Table, Internet gateways**
* **Elastic IP Address**
* **Connection of Instances in public subnet**
* **Accessing of instances private subnet**
* **Configuring Network Connections between two VPCs Peering Concept**
* **Configuring network connection VPC**
* **Network Access Control List (ACL)**
* **Network Address Translation (NAT) instance and NAT Gateways**

**Module 5 – Amazon Simple Storage Service (S3)**

* **Creating Bucket in S3**
* **Versioning in S3**
* **Making Bucket Public**
* **Hosting Static Website in S3 Bucket**
* **Accessing S3 Bucket through EC2 (Endpoint)**
* **Accessing S3 via CLI**
* **Understanding ROLE Switch in S3**
* **Creating Bucket in S3**
* **Versioning in S3**

**Module 6 – Domain Naming System (DNS)**

* **Introduction of DNS**
* **Creating Active Directory (AD Services)**
* **Joining Member to AD**
* **Creating EC2 with Dynamic Host Configuration Protocol (DHCP) option**

**Module 7 – Route 53**

* **Registering domain on Route 53**
* **Registering domain from third party domain provider**
* **Web Hosting in Microsoft Server**
* **Web Hosting in Linux**
* **Understanding hosted zones record sets**
* **Publishing static website in S3 with domain name**
* **Merging ELB with route 53**

**Module 8 – ELB, ACW, AUTO SCALING**

* **Elastic Load Balancing**
* **Configuring web servers using ELB**
* **Cloud watch**
* **Understanding Monitoring**
* **Atu Scaling Plans (Merging with ELS and Cloud Watch)**

**Module 9 – Cloud Formation (Infra Oriented)**

* **Introduction**
* **Creating Cloud Formation template**

**Module 10 – Application services**

* **Introduction**
* **Amazon Simple Database Service (AMAZON SQS)**
* **Amazon Simple Workflow Service (AMAZON SWF)**
* **Amazon Notification Service (AMAZON SNS)**

**Module 11 – DATABASE (Infra Oriented)**

* **Amazon RedShift**
* **Amazon Dynamo DB**
* **Amazon RDS**

**Module 12 – LAMBDA (Infra Oriented)**

* **Overview of LAMBDA**
* **Triggering any function using LAMBDA (development knowledge required)**