Microsoft SQL Server 2016:

Topic 1: SQL Server Environments
Topic 2: Introduction to SQL Server and Installation
Topic 3:SQL Server History and features
Topic 4:SQL Server components
Topic5: SQL Server Editions
Topic6: Post installation Steps
Topic:7 Introduction about System Databases
Topic:8 Database Architecture

Implementing SQL Server Security
Topic1: Implementing Security with Principles, Securable and Permissions
Topic2: Different type of Authentication and its behavior
Topic3:SQL Login Vs SQL User
Topic4: Type of SQL server roles and its behavior
Topic5: Database level Security
Topic6: Working with Database, Schema and object level permissions
Topic7: Database Roles

Backup and Restore
Topic1: Backup Types and its behavior
Topi2: Recovery modes and its behavior
Topic3: Database Restoration options
Topic4: Encrypted Backups

REPLICATION:
Topic: Configuring Replication
Topic2: Types of Replications
Topic3: Types of Agents
Topic4: Configuring Transactional and Merge replications

HIGH AVAILABILITY FEATURES AND DISASTER RECOVERY(HADR) CONCEPTS:

LOGSHIPPING:
Topic1: Introduction to Log shipping
Topic1: Configuring Log shipping
Topic2: Advantages of Log shipping
Topic3: Log shipping Jobs
Topic4: Log Shipping Monitoring
Topic5: Log Shipping Issues

Topic6: Method of Failover in Log shipping
Topic7: Understanding the behavior of TUF file

DATABASE MIRRORING:

1) Understanding Database Mirroing
2) Configuring Database Mirroing with endpoints
3) Advantages of Mirroring
4) Performing failover on Mirroring
5) Troubleshooting Mirroring

WINDOWS SERVER FAILOVER CLUSTER: (WSFC)
1) Understanding Hyper-V
2) Creating Network Switch
3) Creating Virtual Machines on Windows Server
4) Establishing Connection Between Virtual machine
5) Creating AD(Active Directory)
6) Creating 2 node failover cluster
7) Configuring SQL Server Instance on Virtual Machines

ALWAYS ON AVAIALABILITY:

1) Configuring Always on WSFC
2) Configuring Availability Groups
3) Configuring Availability Replicas
4) Monitoring Availability Database Groups
5) Troubleshooting Always on Availability Group Issues
6) Configuring Replication on Always On

SQL SERVER PERFORMANCE TUNING:

1) Indexes
2) Statistics
3) Performance Tuning
4) Query Tuning
5) Performance Tuning Scenarios
6) Tempdb

SQL SERVER DBA GENERAL:

1) DBCC COMMANDS
2) TRNSACTION LOG
3) GENERAL
4) SHRINKING LOGFILE OF DATABASES