

Microsoft 70-764 SQL 2016 - Administering a

Structured technical training and certification preparation

A practical, student-friendly outline covering configure Encryption, configure Data Access and Permissions, configure Auditing, develop a Backup Strategy, ...

MODULES

13

LESSONS

106

FORMAT

Self-paced

Module Breakdown

MODULE 1

Configure Encryption

- Introduction
- Exam Objectives and Lab Setup
- Restoring AdventureWorks 2016 Database Lab Part 1
- Restoring AdventureWorks 2016 Database Lab Part 2
- Restoring AdventureWorks 2016 Database Lab Part 3
- Configure Encryption
- Cell-Level Encryption Part 1
- Cell-Level Encryption Part 2
- Cell-Level Encryption Lab Part 1
- Cell-Level Encryption Lab Part 2
- Transparent Data Encryption
- Transparent Data Encryption Lab
- Always Encrypted
- Always Encrypted Lab
- Backup Encryption
- Backup Encryption Lab
- Connection Encryption
- Encryption Troubleshooting

MODULE 2

Configure Data Access and Permissions

- Create and Maintain Users
- Create and Maintain Users Lab Part 1
- Create and Maintain Users Lab Part 2
- Configure and Maintain Custom Roles
- Configure and Maintain Custom Roles Lab
- Manage Database Object Permissions Part 1
- Manage Database Object Permissions Part 2
- Manage Database Object Permissions Lab Part 1
- Manage Database Object Permissions Lab Part 2
- Configure User Options for Azure SQL Database
- Configure Row-Level Security
- Configure Dynamic Data Masking
- Configure Dynamic Data Masking Lab

Module Breakdown (continued)

<p>MODULE 3</p> <p>Configure Auditing Manage a SQL Server Audit Manage a SQL Server Audit Lab Query the SQL Server Audit Log Manage an Azure SQL Server Audit</p>	<p>MODULE 4</p> <p>Develop a Backup Strategy Backup Types Part 1 Backup Types Part 2 Manage, Backup, and Restore Databases Lab Part 1 Manage, Backup, and Restore Databases Lab Part 2 Backup Very Large Databases Part 1 Backup Very Large Databases Part 2 Backup Very Large Databases Part 3 Backup Very Large Databases Part 4 4.9 Managing Very Large Databases Lab Part 1 4.10 Managing Very Large Databases Lab Part 2 4.11 Managing Very Large Databases Lab Part 3 Configure Alerting for Failed Backups Configure Alerting for Failed Backups Lab Part 1 Configure Alerting for Failed Backups Lab Part 2 Back up Databases to Azure Manage Transaction Log Backups Configure Database Recovery Models Set Database Recovery Model Lab</p>
<p>MODULE 4</p> <p>Develop a Backup Strategy (continued) Configure Backup Automation Configure Backup Automation Lab</p>	<p>MODULE 5</p> <p>Restore Databases Perform Piecemeal Restores Restore Databases Lab Part 1 Restore Databases Lab Part 2 Restore Databases Lab Part 3 Perform Page Recovery Perform Point-in-Time Recovery Perform Point-in-Time Recovery Lab Restore File Groups Develop a Plan to Automate and Test Restores</p>
<p>MODULE 6</p> <p>Manage Database Integrity Implement Database Consistency Checks Implement Database Consistency Checks Lab Identify Database Corruption Recover From Database Corruption</p>	<p>MODULE 7</p> <p>Monitor Database Activity Monitor Current Sessions Monitor Current Sessions Lab Identify Sessions that Cause Blocking Activity Identify Sessions that Consume tempdb Resources Configure the Data Collector</p>

Module Breakdown (continued)

<p>MODULE 8</p> <p>Monitor Queries Manage the Query Store Manage the Query Store Lab Configure Extended Events and Trace Events Identify Problematic Execution Plans</p>	<p>MODULE 9</p> <p>Manage Indexes Identify and Repair Index Fragmentation Identify and Create Missing Indexes Identify and Drop Underutilized Indexes Manage Existing Columnstore Indexes Part 1 Manage Existing Columnstore Indexes Part 2 Partitioned Tables</p>
<p>MODULE 10</p> <p>Monitor SQL Server Instances Create and Manage Operators Create and Manage SQL Agent Alerts Configure Policy-Based Management Configure Policy-Based Management Lab Identify Available Space on Data Volumes Identify the Cause of- Manage Performance Degradation Identify the Cause of- Manage Performance Degradation Lab Part 1 Identify the Cause of- Manage Performance Degradation Lab Part 2</p>	<p>MODULE 11</p> <p>Implement Log Shipping Configure and Monitor Log Shipping Configure and Monitor Log Shipping Lab Part 1 Configure and Monitor Log Shipping Lab Part 2</p>
<p>MODULE 12</p> <p>Implement Failover Cluster Instances Windows Server Failover Cluster Manage Shared Disks Configure Cluster Shared Volumes Configuring WSFC Lab</p>	<p>MODULE 13</p> <p>Implement Always On Availability Groups Database Mirroring Create an Availability Group Manage Failover Configure Read-Only Routing Create Distributed Availability Groups Configuring Always On Availability Group Lab Part 1 Configuring Always On Availability Group Lab Part 2 Conclusion</p>