



Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

Detalles de contacto

Avda Europa 21, 28108 Alcobendas

Email: formacion.ecs.es@arrow.com

Phone: +34 91 761 21 51

CÓDIGO:	DURACIÓN:	Precio:
MCS_M20764	40 Hours (5 días)	A consultar

Description

This five-day instructor-led course provides students who administer and maintain SQL Server databases with the knowledge and skills to administer a SQL server database infrastructure. Additionally, it will be of use to individuals who develop applications that deliver content from SQL Server databases.

Objetivos

- Authenticate and authorize users
- Assign server and database roles
- Authorize users to access resources
- Protect data with encryption and auditing
- Describe recovery models and backup strategies
- Backup SQL Server databases
- Restore SQL Server databases
- Automate database management
- Configure security for the SQL Server agent
- Manage alerts and notifications
- Managing SQL Server using PowerShell
- Trace access to SQL Server
- Monitor a SQL Server infrastructure
- Troubleshoot a SQL Server infrastructure
- Import and export data

Público

The primary audience for this course is individuals who administer and maintain SQL Server databases. These individuals perform database administration and maintenance as their primary area of responsibility, or work in environments where databases play a key role in their primary job. The secondary audiences for this course are individuals who develop applications that deliver content from SQL Server databases.

Requisitos Previos

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Working knowledge of Transact-SQL.
- Working knowledge of relational databases.
- Some experience with database design.

Programa

Module 1: Authenticating and Authorizing Users

- Authenticating connections to SQL Server
- Authorizing logins to access databases
- Authorization across servers
- Partially contained databases

- Lab : Authenticating Users

Module 2: Assigning Server and Database Roles

- Working with server roles
- Working with Fixed database roles
- Creating user-defined database roles
- Lab : Assigning server and database roles

Module 3: Authorizing Users to Access Resources

- Authorizing user access to objects
- Authorizing users to execute code
- Configuring permissions at the schema level
- Lab : Authorizing users to access resources

Module 4: Protecting Data with Encryption and Auditing

- Options for auditing data access in SQL Server
- Implementing SQL Server audit
- Managing SQL Server audit
- Protecting data with encryption
- Lab : Using Auditing and Encryption

Module 5: SQL Server Recovery Models

- Backup strategies
- Understanding SQL Server transaction login
- Planning a SQL Server backup strategy
- Lab : Understanding SQL Server recovery models

Module 6: Backup of SQL Server Databases

- Backing up databases and transaction logs
- Managing database backups
- Working with backup options
- Lab : Backing up SQL Server databases

Module 7: Restoring SQL Server Databases

- Understanding the restore process
- Restoring databases
- Working with point-in-time recovery
- Restoring system databases and individual files
- Lab : Restoring SQL Server User Databases

Module 8: Automating SQL Server Management

- Automating SQL Server management
- Working with SQL Server agent
- Managing SQL Server agent jobs
- Multi-server management
- Lab : Automating SQL Server Management

Module 9: Configuring Security for SQL Server Agent

- Understanding SQL Server Agent Security
- Configuring credentials
- Configuring proxy accounts
- Lab : Configuring Security for SQL Server Agent

Module 10: Monitoring SQL Server with Alerts and Notifications

- Configuration of database mail
- Monitoring SQL Server errors
- Configuring operators, alerts, and notifications
- Alerts in Azure SQL database
- Lab : Monitoring SQL Server with Alerts and Notifications

Module 11: Introduction to Managing SQL Server by using PowerShell

- Configure SQL Server using PowerShell
- Administer SQL Server using PowerShell
- Maintain the SQL Server environment using PowerShell
- Managing Azure SQL Server databases using PowerShell
- Lab : Administering SQL Server using PowerShell

Module 12: Tracing Access to SQL Server

- Capturing activity using SQL Server profiler
- Improving performance with the database engine tuning advisor
- Working with tracing options
- Distributed replay
- Monitoring locks
- Lab : Tracing Access to SQL Server

Module 13: Monitoring SQL Server

- Monitoring activity
- Capturing and managing performance data
- Analyzing collected performance data
- SQL Server utility
- Lab : Monitoring SQL Server

Module 14: Troubleshooting SQL Server

- SQL Server troubleshooting methodology
- Resolving service related issues
- Resolving login and connectivity issues
- Troubleshooting common issues
- Lab : Troubleshooting Common Issues

Module 15: Importing and Exporting Data

- Transferring data to/from SQL Server
- Importing and exporting table data
- Using BCP and BULK INSERT to import data
- Deploying and upgrading data-tier applications
- Lab : Importing and Exporting Data

Fechas Programadas

A petición. Gracias por [contactarnos](#).

Información Adicional

[Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.](#)