



Microsoft Certified Azure Data Engineer Associate

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Objetivos:

Obtener los conocimientos necesarios para prepararse los siguientes exámenes de certificación:

- DP-200: Implementing an Azure Data Solution.
- DP-201: Designing an Azure Data Solution

Requisitos:

No es necesario cumplir con requisitos previos para acceder a este curso

Perfil del docente:

- Formador Certificado por Microsoft
- Más de 5 años de experiencia profesional
- Más de 4 años de experiencia docente
- Profesional activo en empresas del sector IT

Metodología:

- “Learning by doing” se centra en un contexto real y concreto, buscando un aprendizaje en equipo para la resolución de problemas en el sector empresarial.
- Aulas con grupos reducidos para que el profesional adquiera la mejor atención por parte de nuestros instructores profesionales.
- El programa de estudios como partners oficiales es confeccionado por nuestro equipo de formación y revisado por las marcas de referencia en el sector.
- La impartición de las clases podrá ser realizada tanto en modalidad Presencial como Virtual.



Contenidos:

DP-200T01: Implementing an Azure Data Solution

- **Azure for the Data Engineer**
 - Explain the evolving world of data
 - Survey the services in the Azure Data Platform
 - Identify the tasks that are performed by a Data Engineer
 - Describe the use cases for the cloud in a Case Study
- **Working with Data Storage**
 - Choose a data storage approach in Azure
 - Create an Azure Storage Account
 - Explain Azure Data Lake storage
 - Upload data into Azure Data Lake
- **Enabling Team Based Data Science with Azure Databricks**
 - Explain Azure Databricks
 - Work with Azure Databricks
 - Read data with Azure Databricks
 - Perform transformations with Azure Databricks
- **Building Globally Distributed Databases with Cosmos DB**
 - Create an Azure Cosmos DB database built to scale
 - Insert and query data in your Azure Cosmos DB database
 - Build a .NET Core app for Cosmos DB in Visual Studio Code
 - Distribute your data globally with Azure Cosmos DB
- **Working with Relational Data Stores in the Cloud**
 - Use Azure SQL Database
 - Describe Azure SQL Data Warehouse
 - Creating and Querying an Azure SQL Data Warehouse
 - Use PolyBase to Load Data into Azure SQL Data Warehouse
- **Performing Real-Time Analytics with Stream Analytics**
 - Explain data streams and event processing
 - Data Ingestion with Event Hubs
 - Processing Data with Stream Analytics Jobs
- **Orchestrating Data Movement with Azure Data Factory**
 - Explain how Azure Data Factory works
 - Azure Data Factory Components
 - Azure Data Factory and Databricks
- **Securing Azure Data Platforms**
 - An introduction to security
 - Key security components
 - Securing Storage Accounts and Data Lake Storage
 - Securing Data Stores
 - Securing Streaming Data
- **Monitoring and Troubleshooting Data Storage and Processing**



- Explain the monitoring capabilities that are available
- Troubleshoot common data storage issues
- Troubleshoot common data processing issues
- Manage disaster recovery

DP-201T01: Microsoft Certified: Azure Data Engineer Associate

- **Data Platform Architecture Considerations**
 - Core Principles of Creating Architectures
 - Design with Security in Mind
 - Performance and Scalability
 - Design for availability and recoverability
 - Design for efficiency and operations
 - Case Study
- **Azure Batch Processing Reference Architectures**
 - Lambda architectures from a Batch Mode Perspective
 - Design an Enterprise BI solution in Azure
 - Automate enterprise BI solutions in Azure
 - Architect an Enterprise-grade Conversational Bot in Azure
- **Azure Real-Time Reference Architectures**
 - Lambda architectures for a Real-Time Perspective
 - Architect a stream processing pipeline with Azure Stream Analytics
 - Design a stream processing pipeline with Azure Databricks
 - Create an Azure IoT reference architecture
- **Data Platform Security Design Considerations**
 - Defense in Depth Security Approach
 - Identity Management
 - Infrastructure Protection
 - Encryption Usage
 - Network Level Protection
 - Application Security
- **Designing for Resiliency and Scale**
 - Adjust Workload Capacity by Scaling
 - Optimize Network Performance
 - Design for Optimized Storage and Database Performance
 - Identifying Performance Bottlenecks
 - Design a Highly Available Solution
 - Incorporate Disaster Recovery into Architectures
 - Design Backup and Restore strategies
- **Design for Efficiency and Operations**
 - Maximizing the Efficiency of your Cloud Environment
 - Use Monitoring and Analytics to Gain Operational Insights
 - Use Automation to Reduce Effort and Error



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