

MDAI-19 - MOC DP-500T00 - DESIGNING AND IMPLEMENTING ENTERPRISE-SCALE ANALYTICS SOLUTIONS USING MICROSOFT AZURE AND MICROSOFT POWER BI

Categoria: **Data & AI**

INFORMAZIONI SUL CORSO



Durata:
4 Giorni



Categoria:
Data & AI



Qualifica Istruttore:
Microsoft Certified
Trainer



Dedicato a:
Professionista IT



Produttore:
Microsoft

OBIETTIVI

- Implement and manage a data analytics environment
- Query and transform data
- Implement and manage data models
- Explore and visualize data

PREREQUISITI

Before attending this course, it is recommended that students have:

- A foundational knowledge of core data concepts and how they're implemented using Azure data services. For more information see [Azure Data Fundamentals](#).
- Experience designing and building scalable data models, cleaning and transforming data, and enabling advanced analytic capabilities that provide meaningful business value using Microsoft Power BI. For more information see [Power BI Data Analyst](#).

CONTENUTI

Module 1: Introduction to data analytics on Azure

- Explore Azure data services for modern analytics
- Understand concepts of data analytics
- Explore data analytics at scale

Module 2: Govern data across an enterprise

- Introduction to Microsoft Purview
- Discover trusted data using Microsoft Purview
- Catalog data artifacts by using Microsoft Purview
- Manage Power BI artifacts by using Microsoft Purview

Module 3: Model, query, and explore data in Azure Synapse

- Introduction to Azure Synapse Analytics

- Use Azure Synapse serverless SQL pool to query files in a data lake
- Analyze data with Apache Spark in Azure Synapse Analytics
- Analyze data in a relational data warehouse

Lab : Query data in Azure

Lab : Create a star schema model

Lab : Explore data in Spark notebooks

Module 4: Prepare data for tabular models in Power BI

- Choose a Power BI model framework
- Understand scalability in Power BI
- Optimize Power Query for scalable solutions
- Create and manage scalable Power BI dataflows

Lab : Create a dataflow

Module 5: Design and build scalable tabular models

- Create Power BI model relationships
- Enforce model security
- Implement DirectQuery
- Create calculation groups
- Use tools to optimize Power BI performance

Lab : Create model relationships

Lab : Design and build tabular models

Lab : Create calculation groups

Lab : Use tools to optimize Power BI performance

Lab : Enforce model security

Module 6: Implement advanced data visualization techniques by using Power BI

- Understand advanced data visualization concepts
- Customize core data models
- Monitor data in real-time with Power BI
- Create and distribute paginated reports in Power BI report builder

Lab : Create and distribute paginated reports in Power BI Report Builder

Lab : Monitor data in real-time with Power BI

Module 7: Implement and manage an analytics environment

- Provide governance in a Power BI environment
- Facilitate collaboration and sharing in Power BI
- Monitor and audit usage
- Provision Premium capacity in Power BI
- Establish a data access infrastructure in Power BI
- Broaden the reach of Power BI
- Automate Power BI administration
- Build reports using Power BI within Azure Synapse Analytics

Module 8: Manage the analytics development lifecycle

- Design a Power BI application lifecycle management strategy

- Create and manage a Power BI deployment pipeline
- Create and manage Power BI assets

Lab : Create reusable Power BI assets

Module 9: Integrate an analytics platform into an existing IT infrastructure

- Recommend and configure a Power BI tenant or workspace
- Identify requirements for a solution, including features, performance, and licensing strategy
- Integrate an existing Power BI workspace into Azure Synapse Analytics

INFO

Esame: DP-500 - Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI

Materiale didattico: Materiale didattico ufficiale Microsoft in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)