

# MDAI-2 - MOC DP-100T01 - DESIGNING AND IMPLEMENTING A DATA SCIENCE SOLUTION ON AZURE

Categoria: **Data & AI**

## INFORMAZIONI SUL CORSO



**Durata:**  
4 Giorni



**Categoria:**  
Data & AI



**Qualifica Istruttore:**  
Microsoft Certified  
Trainer



**Dedicato a:**  
Professionista IT



**Produttore:**  
Microsoft

## OBIETTIVI

Learn how to operate machine learning solutions at cloud scale using Azure Machine Learning. This course teaches you to leverage your existing knowledge of Python and machine learning to manage data ingestion and preparation, model training and deployment, and machine learning solution monitoring with Azure Machine Learning and MLflow. This course is designed for data scientists with existing knowledge of Python and machine learning frameworks like Scikit-Learn, PyTorch, and TensorFlow, who want to build and operate machine learning solutions in the cloud.

## PREREQUISITI

Successful Azure Data Scientists start this role with a fundamental knowledge of cloud computing concepts, and experience in general data science and machine learning tools and techniques.

Specifically:

- Creating cloud resources in Microsoft Azure.
- Using Python to explore and visualize data.
- Training and validating machine learning models using common frameworks like Scikit-Learn, PyTorch, and TensorFlow.
- Working with containers

To gain these prerequisite skills, take the following course:

- AZ-900 - Azure Fundamentals
- DP-900 - Microsoft Azure Data Fundamentals
- AI-900T00 - Microsoft Azure AI Fundamentals

## CONTENUTI

**Design a data ingestion strategy for machine learning projects**

**Design a machine learning model training solution**

**Design a model deployment solution**

**Explore Azure Machine Learning workspace resources and assets**

Explore developer tools for workspace interaction

Make data available in Azure Machine Learning

Work with compute targets in Azure Machine Learning

Work with environments in Azure Machine Learning

Find the best classification model with Automated Machine Learning

Track model training in Jupyter notebooks with MLflow

Run a training script as a command job in Azure Machine Learning

Track model training with MLflow in jobs

Run pipelines in Azure Machine Learning

Perform hyperparameter tuning with Azure Machine Learning

Deploy a model to a managed online endpoint

Deploy a model to a batch endpoint

## INFO

**Esame:** DP-100 - Designing and Implementing a Data Science Solution on Azure

**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)