# DP-100T01 - Designing and Implementing a Data Science Solution on Azure

Microsoft - Microsoft Azure - Virtualizzazione e Cloud

| Durata: | Lingue: | Certificazione: |
|---|---|---|
| **3 Giorni** | **Italiano** | **Microsoft Certified: Azure Data Scientist Associate** |

## Descrizione del corso

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 in Microsoft Azure. This course is preparatory to the Exam DP-100: Designing and Implementing a Data Science Solution on Azure valid for Microsoft Certified: Azure Data Scientist Associate

## Programma

### Module 1: Getting Started with Azure Machine Learning

- Introduction to Azure Machine Learning
- Working with Azure Machine Learning

### Module 2: Visual Tools for Machine Learning

- Automated Machine Learning
- EAzure Machine Learning Designer

### Module 3: Running Experiments and Training Models

- Introduction to Experiments
- Training and Registering Models

### Module 4: Working with Data

- Working with Datastores

- Working with Datasets

**Module 5: Working with Compute**

- Working with Environments
- Working with Compute Targets

**Module 6: Orchestrating Operations with Pipelines**

- Introduction to Pipelines
- Publishing and Running Pipelines

**Module 7: Deploying and Consuming Models**

- Real-time Inferencing
- Batch Inferencing
- Continuous Integration and Delivery

**Module 8: Training Optimal Models**

- Hyperparameter Tuning
- Automated Machine Learning

**Module 9: Responsible Machine Learning**

- Differential Privacy
- Model Interpretability
- Fairness

**Module 10: Monitoring Models**

- Monitoring Models with Application Insights
- Monitoring Data Drift