# New DP-100 Test Cost - DP-100 Valid Test Objectives



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>> New DP-100 Test Cost <<

## DP-100 Valid Test Objectives & DP-100 Minimum Pass Score

Heaps of beginners and skilled professionals already have surpassed the Microsoft DP-100 certification exam and pursuing a worthwhile profession inside the quite aggressive market. You may additionally turn out to be a part of this skilled and certified community. To try this you sincerely need to pass the Microsoft DP-100 Certification examination.

## Microsoft DP-100 Exam Syllabus Topics:

| Topic | Details |
|---|---|
| **Manage Azure resources for machine learning (25-30%)** | |
| Create an Azure Machine Learning workspace | - create an Azure Machine Learning workspace <br> - configure workspace settings <br> - manage a workspace by using Azure Machine Learning studio |
| Manage data in an Azure Machine Learning workspace | - select Azure storage resources <br> - register and maintain datastores <br> - create and manage datasets |
| Manage compute for experiments in Azure Machine Learning | - determine the appropriate compute specifications for a training workload <br> - create compute targets for experiments and training <br> - configure Attached Compute resources including Azure Databricks <br> - monitor compute utilization |

| | |
|---|---|
| Implement security and access control in Azure Machine Learning | - determine access requirements and map requirements to built-in roles<br>- create custom roles<br>- manage role membership<br>- manage credentials by using Azure Key Vault |
| Set up an Azure Machine Learning development environment | - create compute instances<br>- share compute instances<br>- access Azure Machine Learning workspaces from other development environments |
| Set up an Azure Databricks workspace | - create an Azure Databricks workspace<br>- create an Azure Databricks cluster<br>- create and run notebooks in Azure Databricks<br>- link and Azure Databricks workspace to an Azure Machine Learning workspace |

## Run Experiments and Train Models (20-25%)

| | |
|---|---|
| Create models by using the Azure Machine Learning Designer | - create a training pipeline by using Azure Machine Learning designer<br>- ingest data in a designer pipeline<br>- use designer modules to define a pipeline data flow<br>- use custom code modules in designer |
| Run model training scripts | - create and run an experiment by using the Azure Machine Learning SDK<br>- configure run settings for a script<br>- consume data from a dataset in an experiment by using the Azure Machine Learning SDK<br>- run a training script on Azure Databricks compute<br>- run code to train a model in an Azure Databricks notebook |
| Generate metrics from an experiment run | - log metrics from an experiment run<br>- retrieve and view experiment outputs<br>- use logs to troubleshoot experiment run errors<br>- use MLflow to track experiments<br>- track experiments running in Azure Databricks |
| Use Automated Machine Learning to create optimal models | - use the Automated ML interface in Azure Machine Learning studio<br>- use Automated ML from the Azure Machine Learning SDK<br>- select pre-processing options<br>- select the algorithms to be searched<br>- define a primary metric<br>- get data for an Automated ML run<br>- retrieve the best model |
| Tune hyperparameters with Azure Machine Learning | - select a sampling method<br>- define the search space<br>- define the primary metric<br>- define early termination options<br>- find the model that has optimal hyperparameter values |

## Deploy and operationalize machine learning solutions (35-40%)

| | |
|---|---|
| Select compute for model deployment | - consider security for deployed services<br>- evaluate compute options for deployment |
| Deploy a model as a service | - configure deployment settings<br>- deploy a registered model<br>- deploy a model trained in Azure Databricks to an Azure Machine Learning endpoint<br>- consume a deployed service<br>- troubleshoot deployment container issues |
| Manage models in Azure Machine Learning | - register a trained model<br>- monitor model usage<br>- monitor data drift |

| Create an Azure Machine Learning pipeline for batch inferencing | - configure a ParallelRunStep<br>- configure compute for a batch inferencing pipeline<br>- publish a batch inferencing pipeline<br>- run a batch inferencing pipeline and obtain outputs<br>- obtain outputs from a ParallelRunStep |
| --- | --- |

Microsoft DP-100 Certification Exam is an excellent way for data science professionals to validate their expertise in designing and implementing data science solutions on Microsoft Azure. DP-100 exam is recognized globally and is highly regarded by employers in the field of data science. Designing and Implementing a Data Science Solution on Azure certification is a testament to the candidate's knowledge and expertise in the field of data science and can open up new career opportunities.

Microsoft DP-100: Designing and Implementing a Data Science Solution on Azure is a certification exam designed for data professionals who want to demonstrate their skills in designing and implementing data science solutions on Azure. It is intended for individuals who work with data engineers, data scientists, and other stakeholders in the organization to create and deploy end-to-end data science solutions.

## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q443-Q448):

NEW QUESTION # 443
You create an Azure Machine Learning workspace.
You must implement dedicated compute for model training in the workspace by using Azure Synapse compute resources. The solution must attach the dedicated compute and start an Azure Synapse session.
You need to implement the compute resources.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



**Answer:**

Explanation:



1 - Create a linked service by using Azure Machine Learning studio.
2 - Create an Azure Synapse workspace by using the Azure portal.
3 - Create an Apache Spark pool by using the Azure portal.

**NEW QUESTION # 444**

You are retrieving data from a large datastore by using Azure Machine Learning Studio.

You must create a subset of the data for testing purposes using a random sampling seed based on the system clock.

You add the Partition and Sample module to your experiment.

You need to select the properties for the module.

Which values should you select? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

◢ **Partition and Sample** Microsoft

Partition or sample mode

| ▼ |
| --- |
| Assign to Folds |
| Pick Fold |
| Sampling |
| Head |

Rate of sampling ≡

| .2 |
| --- |

Random seed for sampling ≡

| ▼ |
| --- |
| 0 |
| 1 |
| time.clock() |
| utcNow() |

Stratified split for sampling

| False ⌄ |
| --- |

**Answer:**

Explanation:

**Partition and Sample**

Partition or sample mode

| ▼ |
|---|
| Assign to Folds |
| Pick Fold |
| Sampling |
| Head |

Rate of sampling

.2

Random seed for sampling

| ▼ |
|---|
| 0 |
| 1 |
| time.clock() |
| utcNow() |

Stratified split for sampling

False ▼

Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/partition-and-sample

**NEW QUESTION # 445**
You need to set up the Permutation Feature Importance module according to the model training requirements.
Which properties should you select? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Tune Model Hyperparameters

Specify parameter sweeping mode

Random sweep ▾

Maximum number of runs on random sweep ≡

5

Random seed ≡

0

Label column

**Selected columns:**
**Column names:** MedianValue

Launch column selector

Metric for measuring performance for classification ≡

▼

| F-score |
|---|
| Precision |
| Recall |
| Accuracy |

Metric for measuring performance for regression ≡

▼

| Root of mean squared error |
|---|
| R-squared |
| Mean zero one error |
| Mean absolute error |

**Answer:**

Explanation:

◢ Tune Model Hyperparameters

Specify parameter sweeping mode

| Random sweep | ▾ |

Maximum number of runs on random sweep ☰

| 5 |

Random seed ☰

| 0 |

Label column

Selected columns:
Column names: MedianValue

Launch column selector

Metric for measuring performance for classification ☰

| ▼ |

| F-score |
| Precision |
| Recall |
| **Accuracy** |

Metric for measuring performance for regression ☰

| ▼ |

| Root of mean squared error |
| **R-squared** |
| Mean zero one error |
| Mean absolute error |

**NEW QUESTION # 446**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You use Azure Machine Learning designer to load the following datasets into an experiment:

Dataset1

| Age | Length | Width |
|-----|--------|-------|
| 3 | 22 | 13 |
| 7 | 11 | 96 |
| 18 | 32 | 85 |

Dataset2

| Age | Length | Width |
|-----|--------|-------|
| 11 | 101 | 65 |
| 6 | 98 | 23 |
| 33 | 22 | 54 |
| 17 | 52 | 12 |

You need to create a dataset that has the same columns and header row as the input datasets and contains all rows from both input datasets.
Solution: Use the Add Rows module.
Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

**NEW QUESTION # 447**
You manage an Azure Machine Learning workspace by using the Python SDK v2.
You must create a compute cluster in the workspace. The compute cluster must run workloads and properly handle interruptions.
You start by calculating the maximum amount of compute resources required by the workloads and size the cluster to match the calculations.
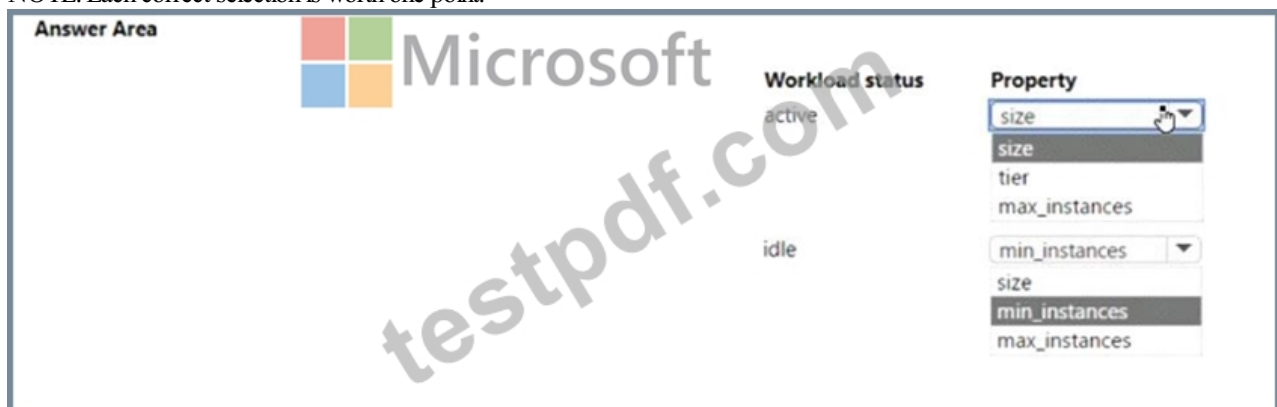The cluster definition includes the following properties and values:
* name="mlcluster1"
* size="STANDARD.DS3.v2"
* min_instances=1
* maxjnstances=4
* tier="dedicated"
The cost of the compute resources must be minimized when a workload is active Of idle. Cluster property changes must not affect the maximum amount of compute resources available to the workloads run on the cluster.
You need to modify the cluster properties to minimize the cost of compute resources.
Which properties should you modify? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



**Answer:**

Explanation:



Explanation

Microsoft

| Workload status | Property |
| --- | --- |
| active | size ▾ |
| idle | min_instances ▾ |

# NEW QUESTION # 448

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