


Microsoft AI-102 Valid Exam Sample | AI-102 Trustworthy Practice

Microsoft Azure **Certification Details**

AI-102: Designing and Implementing a Microsoft Azure AI Solution

 Prior Certification Not Required	 Exam Validity 1 Year	 Exam Fee \$165 USD
 Exam Duration 180 Minutes	 No. of Questions 40-60 Questions	 Passing Marks 700
 Recommended Experience Skills to build, manage, and deploy AI solutions that leverage Azure Cognitive Services and Azure Applied AI services		 Exam Format Multiple choice, Drag & drop, Case studies, Multiple response
 Languages English, Japanese, Chinese (Simplified), Korean, German, French, Spanish, Portuguese (Brazil), Arabic (Saudi Arabia), Russian, Chinese (Traditional), Italian, Indonesian (Indonesia)		

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Microsoft AI-102 Certification Exam covers a wide range of topics, including designing and implementing AI solutions, data storage and processing, natural language processing, computer vision, and speech recognition. AI-102 exam also assesses the candidate's ability to design and implement custom AI models using popular frameworks such as TensorFlow and PyTorch, as well as the ability to deploy and manage AI models on the Azure platform.

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Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q327-Q332):

NEW QUESTION # 327

You are developing an application that includes language translation.


The application will translate text retrieved by using a function named `get_text_to_be_translated`. The text can be in one of many languages. The content of the text must remain within the Americas Azure geography.

You need to develop code to translate the text to a single language.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Microsoft

```

...
api_key = "FF956C68B83B21838691ABD200A4C606"
text = get_text_to_be_translated()
headers = {
    'Content-Type': 'application/json',
    'Ocp-Apim-Subscription-Key': api_key
}
body = {
    'Text': text
}
conn = httplib.HTTPSConnection
conn.request("POST",
response = conn.getresponse()
    conn.request("POST",
        response = conn.getresponse()
        response_data = response.r
...

```

Options for the first dropdown:

- "/api.cognitive.microsofttranslator.com")
- "/api-apc.cognitive.microsofttranslator.com")
- "/api-nam.cognitive.microsofttranslator.com")

Options for the second dropdown:

- "/translate?from=en"
- "/translate?suggestedFrom=en"
- "/translate?to=en"
- "/detect?to=en"
- "/detect?from=en"

Final code line: `conn.request("POST", str(body), headers)`

Answer:

Explanation:

NEW QUESTION # 328

You are developing the knowledgebase by using Azure Cognitive Search.

You need to build a skill that will be used by indexers.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Microsoft

```

{
  "@odata.type": "#Microsoft.Skills.Text.EntityRecognitionSkill",
  "categories": [],
  "categories": [ "Email", "Persons", "Organizations",
  "categories": [ "Locations", "Persons", "Organizations",
  "minimumPrecision": 0.7,
  "inputs": [
    { "name": "text",
      "source": "/document/content"
    }
  ],
  "outputs": [
    { "name": "persons", "targetName": "people",
    { "name": "locations", "targetName": "locations",
    { "name": "organizations", "targetName": "organizations",
    { "name": "entities"
    { "name": "categories"
    { "name": "namedEntities"
  ]
}

```

Answer:

Explanation:

Answer Area

```
{
  "@odata.type": "#Microsoft.Skills.Text.EntityRecognitionSkill",
  "categories": [],
  "categories": [ "Email", "Persons", "Organizations" ],
  "categories": [ "Locations", "Persons", "Organizations" ],
  "minimumPrecision": 0.7,
  "inputs": [
    { "name": "text",
      "source": "/document/content" }
  ],
  "outputs": [
    { "name": "persons", "targetName": "people" },
    { "name": "locations", "targetName": "locations" },
    { "name": "organizations", "targetName": "organizations" },
    { "name": "entities" },
    { "name": "categories" },
    { "name": "namedEntities" }
  ]
}
```

Explanation:

Box 1: "categories": ["Locations", "Persons", "Organizations"],

Locations, Persons, Organizations are in the outputs.

Scenario: Contoso plans to develop a searchable knowledgebase of all the intellectual property Note: The categories parameter is an array of categories that should be extracted. Possible category types:

"Person", "Location", "Organization", "Quantity", "Datetime", "URL", "Email". If no category is provided, all types are returned.

Box 2: {"name": "entities"}

The include wikis, so should include entities in the outputs.

Note: entities is an array of complex types that contains rich information about the entities extracted from text, with the following fields name (the actual entity name. This represents a "normalized" form) wikipediaId wikipediaLanguage wikipediaUrl (a link to Wikipedia page for the entity) etc.

Reference:

<https://docs.microsoft.com/en-us/azure/search/cognitive-search-skill-entity-recognition>

NEW QUESTION # 329

You are building an internet-based training solution. The solution requires that a user's camera and microphone remain enabled.

You need to monitor a video stream of the user and detect when the user asks an instructor a question. The solution must minimize development effort.

What should you include in the solution?

- A. language detection in Azure AI Language Service
- B. object detection in Azure AI Custom Vision
- C. speech-to-text in the Azure AI Speech service
- D. the Face service in Azure AI Vision

Answer: C

NEW QUESTION # 330

You are developing a new sales system that will process the video and text from a public-facing website.

You plan to monitor the sales system to ensure that it provides equitable results regardless of the user's location or background.

Which two responsible AI principles provide guidance to meet the monitoring requirements? Each correct answer presents part of the solution. (Choose two.) NOTE: Each correct selection is worth one point.

- A. inclusiveness
- B. fairness
- C. transparency
- D. reliability and safety

- E. privacy and security

Answer: B,D

Explanation:

AI systems should treat all people fairly.

AI systems should perform reliably and safely. Reference:

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/responsible-ai>

NEW QUESTION # 331

You are developing a streaming Speech to Text solution that will use the Speech SDK and MP3 encoding.

You need to develop a method to convert speech to text for streaming MP3 data.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
var audioFormat = (AudioStreamContainerFormat.MP3);
var speechConfig = SpeechConfig.FromSubscription("18c51a87-3a69-47a8-aedc-a54745f708a1", "westus");
var audioConfig = AudioConfig.FromStreamInput(pushStream, audioFormat);
using (var recognizer = new (speechConfig, audioConfig))
{
    var result = await recognizer.RecognizeOnceAsync();
    var text = result.Text;
}
```

Answer:

Explanation:

```
var audioFormat = (AudioStreamContainerFormat.MP3);
var speechConfig = SpeechConfig.FromSubscription("18c51a87-3a69-47a8-aedc-a54745f708a1", "westus");
var audioConfig = AudioConfig.FromStreamInput(pushStream, audioFormat);
using (var recognizer = new (speechConfig, audioConfig))
{
    var result = await recognizer.RecognizeOnceAsync();
    var text = result.Text;
}
```

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-use-codec-compressed-audio-input-streams?tabs=debian&pivots=programming-language-csharp>

NEW QUESTION # 332

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