AI-3003 Develop natural language solutions in Azure

Category: AI, Data & Analytics | **Vendor:** Microsoft Technical

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Certified: Azure AI Engineer Associate
Related Exam:	AI-300

Course Overview

Natural language processing (NLP) solutions use language models to interpret the semantic meaning of written or spoken language. You can use the Language Understanding service to build language models for your applications.

About This Course

Natural language processing (NLP) solutions use language models to interpret the semantic meaning of written or spoken language. You can use the Language Understanding service to build language models for your applications.

Who Should Attend

Familiarity with Azure and the Azure portal.

Experience programming with C# or Python.

Prerequisites & Entry Requirements

General Prerequisites:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Analyze text with Azure AI Language

Build a question answering solution

Build a conversational language understanding model

Create a custom text classification solution

Create a custom named entity extraction solution

Translate text with Azure AI Translator service

Create speech-enabled apps with Azure AI services

Translate speech with the Azure AI Speech service

Detailed Course Outline

1 - Analyze text with Azure Language in Foundry Tools

- Azure Language in Microsoft Foundry Tools
- Detect language
- Extract key phrases
- Analyze sentiment
- Extract entities
- Extract linked entities
- Module assessment

2 - Develop a text analysis agent with the Azure Language MCP server

- Understand the Azure Language MCP server
- Connect and use the Language MCP server with an agent

3 - Develop a speech-capable generative AI application

- Choose a speech-capable model
- Transcribe speech
- Synthesize speech
- Module assessment

4 - Create speech-enabled apps with Azure Speech in Microsoft Foundry Tools

- Azure Speech in Foundry Tools
- Use the Speech to Text API
- Use the Text to Speech API
- Configure audio format and voices
- Use Speech Synthesis Markup Language
- Module assessment

5 - Develop a speech agent with the Azure Speech MCP server

- Understand the Azure Speech MCP server
- Connect and use the Speech MCP server with an agent

6 - Develop an Azure Speech Voice Live Agent in Microsoft Foundry

- Explore the Azure Voice Live API
- Explore the AI Voice Live client library for Python
- Create a Voice Live agent
- Module assessment

7 - Translate text and speech with Microsoft Foundry Tools

- Translation in Microsoft Foundry
- Translate text
- Translate speech
- Module assessment

, Analyze text with Azure AI Language

Introduction

Provision an Azure Language resource

Detect language

Extract key phrases

Analyze sentiment

Extract entities

Extract linked entities

Exercise – Analyze text

Create question answering solutions with Azure Language

Introduction

Understand question answering

Compare question answering to Azure Language understanding

Create a knowledge base

Implement multi-turn conversation

Test and publish a knowledge base

Use a knowledge base

Improve question answering performance

Exercise – Create a question answering solution

Build a conversational language understanding model

Introduction

Understand prebuilt capabilities of the Azure Language service

Understand resources for building a conversational language understanding model

Define intents, utterances, and entities

Use patterns to differentiate similar utterances

Use pre-built entity components

Train, test, publish, and review a conversational language understanding model

Exercise – Build a conversational language understanding model

Create a custom text classification solution

Introduction

Understand types of classification projects

Understand how to build text classification projects

Exercise – Classify text

Custom named entity recognition

Introduction

Understand custom named entity recognition

Label your data

Train and evaluate your model

Exercise – Extract custom entities

Translate text with Azure AI Translator service

Introduction

Provision an Azure Translator resource

Understand language detection, translation, and transliteration

Specify translation options

Define custom translations

Exercise – Translate text with the Azure Translator service

Create speech-enabled apps with Azure AI services

Introduction

Provision an Azure resource for speech

Use the Azure Speech to Text API

Use the text to speech API

Configure audio format and voices

Use Speech Synthesis Markup Language

Exercise – Create a speech-enabled app

Translate speech with the Azure AI Speech service

Introduction

Provision an Azure resource for speech translation

Translate speech to text

Synthesize translations

Exercise – Translate speech

Develop an audio-enabled generative AI application

Introduction

Deploy a multimodal model

Develop an audio-based chat app

Exercise – Develop an audio-enabled chat app

Develop an Azure AI Voice Live agent

Introduction

Explore the Azure Voice Live API

Explore the AI Voice Live client library for Python

Exercise – Develop an Azure AI Voice Live agent

Certification Path

Microsoft Certified: Azure AI Engineer Associate

Exam: AI-300

Upcoming Schedule

Available training dates for AI-3003 Develop natural language solutions in Azure:

Start Date	End Date	Location	Delivery	Price
18 Jan 2027	18 Jan 2027	Online	Virtual	€695.00

Frequently Asked Questions

Q: What delivery options are available for AI-3003 Develop natural language solutions in Azure?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The AI-3003 Develop natural language solutions in Azure course helps prepare you for the Microsoft Certified: Azure AI Engineer Associate certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AI-300 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 1-day AI-3003 Develop natural language solutions in Azure course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AI-3003 Develop natural language solutions in Azure training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AI-3003 Develop natural language solutions in Azure?

Yes, we provide corporate training, dedicated training, and closed classes for AI-3003 Develop natural language solutions in Azure. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AI-3003: Develop natural language solutions in Azure, Microsoft, vILT, AI-3003

Q: Why choose Nexus Human for AI-3003 Develop natural language solutions in Azure?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AI-3003 Develop natural language solutions in Azure training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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