



# Build a Natural Language Processing Solution with Azure AI Services (AI-3003)

## 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. This learning path helps prepare you for Exam AI-102: Designing and Implementing a Microsoft Azure AI Solution.

## WHO WILL BENEFIT FROM THIS COURSE?

- Database Professional
- Microsoft Professional

## PREREQUISITES

Before starting this learning path, you should already have:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python. If you have no previous programming experience, we recommend you complete the Take your first steps with C# or Take your first steps with Python learning path before starting this one.

## COURSE OBJECTIVES

In this course you'll learn-

- 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

## COURSE OUTLINE

Module 1: Analyze text with Azure AI Language

- The Azure AI Language service enables you to create intelligent apps and services that extract semantic information from text.



#### Module 2: Build a question answering solution

- The question answering capability of the Azure AI Language service makes it easy to build applications in which users ask questions using natural language and receive appropriate answers.

#### Module 3: Build a conversational language understanding model

- The Azure AI Language conversational language understanding service (CLU) enables you to train a model that apps can use to extract meaning from natural language.

#### Module 4: Create a custom text classification solution

- The Azure AI Language service enables processing of natural language to use in your own app. Learn how to build a custom text classification project.

#### Module 5: Create a custom named entity extraction solution

- Build a custom entity recognition solution to extract entities from unstructured documents

#### Module 6: Translate text with Azure AI Translator service

- The Translator service enables you to create intelligent apps and services that can translate text between languages.

#### Module 7: Create speech-enabled apps with Azure AI services

- The Azure AI Speech service enables you to build speech-enabled applications. This module focuses on using the speech-to-text and text to speech APIs, which enable you to create apps that are capable of speech recognition and speech synthesis.

#### Module 8: Translate speech with the Azure AI Speech service

- Translation of speech builds on speech recognition by recognizing and transcribing spoken input in a specified language, and returning translations of the transcription in one or more other languages.

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- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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