

# Designing and Implementing a Microsoft Azure AI Solution



## Purpose of the training

The training is intended for programmers who would like to develop applications using Artificial Intelligence, Azure services, namely Azure Cognitive Services, Azure Cognitive Search, Microsoft Bot Framework.

The training is also aimed at software engineers who deal with building, managing and implementing Artificial Intelligence solutions which make use of Azure service within the AI area



## Benefits of completing the training

Knowledge and practical skills related to the use of Artificial Intelligence services from Azure platform in developed applications

Moreover, participants will be able to apply the knowledge to create Artificial Intelligence solutions which use mechanisms of computer vision, language analysis, knowledge exploration, smart search and conversational solutions based on Bots on Azure platform.



## Examination method

**Egzamin** w formie **on-line**. Zapis na stronie <https://home.pearsonvue.com/Clients/Microsoft.aspx>  
<https://www.altkomakademia.pl/vouchery-microsoft-promocja/>



## Expected Listener Preparation

Knowledge Azure platform and an ability to navigate through Azure portal  
Knowledge of C# or Python language.  
An ability to use REST API and JSON  
An ability to use English language materials.



## Training Language

- Training: English
- Materials: English



## Training Includes

\* **podręcznik** w formie elektronicznej dostępny na platformie:  
<https://learn.microsoft.com/pl-pl/training/>

## Duration

4 days / 28 hours

## Training agenda

1. Introduction to Artificial Intelligence on Azure platform
  - Introduction to Artificial Intelligence
  - Artificial Intelligence on Azure platform
2. Developing AI applications with cognitive services
  - Introduction to Cognitive Services
  - Using Cognitive Services in business applications
  - Security Management
  - Monitoring cognitive services
3. Introduction to natural language processing
  - Text analysis
  - Text translation

4. Developing speech-enabled applications
  - Speech detection and synthesis
  - Translating the statement
5. Creating language comprehensive solutions
  - Developing language comprehensive applications
  - Publishing and using applications
  - Using speech comprehensive applications with synthesizer
6. Architectin QnA solutions
  - Creating QnA knowledge base
  - Publishing and using QnA knowledge base
7. Conversational AI and Azure Bot services
  - Bot foundations
  - Implementing conversational bot
8. Computer Vision service foundations
  - Image analysis
  - Movie analysis
9. Creating non-standard vision solutions
  - Image classification
  - Object detection
10. Face detection, analysis and recognition
  - Face detection using Computer Vision service
  - The use of Face Service
11. Reading texts on images and documents
  - Reading texts with the use of Computer Vision service
  - Extracting information from questionnaires with the use of Form Recognizer service
12. Creating solutions of how to gain knowledge
  - Implementing intelligent search solutions
  - Developing non-standard skills of gaining knowledge
  - Creating knowledge storage