

INTRODUCTION TO AI IN AZURE (AI-901)

Course Code: 834123

Master AI essentials: from ML and generative AI to real-world Azure AI applications.

For this exam, you should have conceptual knowledge of AI solutions in Azure and the foundational technical skills to work with them. You also need knowledge of Python coding syntax and programming techniques, and you should be familiar with Azure resources.

What You'll Learn

- Identify AI concepts and responsibilities (40-45%)
- Implement AI solutions by using Microsoft Foundry (55-60%)

INTRODUCTION TO AI IN AZURE (AI-901)

Course Code: 834123

CLASSROOM LIVE

\$675 USD

1 Day

Classroom Live Outline

Module 1: Identify AI concepts and capabilities (40–45%)

- Describe principles of responsible AI
 - ☒ Describe considerations for fairness in an AI solution
 - ☒ Describe considerations for reliability and safety in an AI solution
 - ☒ Describe considerations for privacy and security in an AI solution
 - ☒ Describe considerations for inclusiveness in an AI solution
 - ☒ Describe considerations for transparency in an AI solution
 - ☒ Describe considerations for accountability in an AI solution
- Identify AI model components and configurations
 - ☒ Describe how generative AI models work
 - ☒ Identify an appropriate AI model, based on capabilities
 - ☒ Identify appropriate model deployment options and configuration parameters
- Identify AI workloads
 - ☒ Identify scenarios for common AI workloads, including generative and agentic AI, text analysis, speech, computer vision, and information extraction
 - ☒ Describe common text analysis techniques, including keyword extraction, entity detection, sentiment analysis, and summarization
 - ☒ Identify features and capabilities of speech recognition and speech synthesis
 - ☒ Identify features and capabilities of computer vision and image-generation models
 - ☒ Identify techniques to extract information from text, images, audio, and videos

Module 2: Implement AI solutions by using Microsoft Foundry (55–60%)

- Implement generative AI apps and agents by using Foundry
 - ☒ Create effective system and user prompts for generative AI models
 - ☒ Deploy a model and interact with it in the Foundry portal

- ☒ Create a lightweight chat client application by using the Foundry SDK
- ☒ Create and test a single-agent solution in the Foundry portal
- ☒ Create a lightweight client application for an agent
- Implement AI solutions for text and speech by using Foundry
 - ☒ Build a lightweight application that includes text analysis
 - ☒ Respond to spoken prompts by using a deployed multimodal model
 - ☒ Build a lightweight application by using Azure Speech in Foundry Tools
- Implement AI solutions with computer vision and image-generation capabilities by using Foundry
 - ☒ Interpret visual input in prompts by using a deployed multimodal model
 - ☒ Create new visual outputs by using generative models
 - ☒ Build a lightweight application that includes vision capabilities
- Implement AI solutions for information extraction by using Foundry
 - ☒ Extract information from documents and forms by using Azure Content Understanding in Foundry Tools
 - ☒ Extract information from images by using Content Understanding
 - ☒ Extract information from audio and video by using Content Understanding
 - ☒ Build a lightweight application with information extraction capabilities by using Content Understanding

INTRODUCTION TO AI IN AZURE (AI-901)

Course Code: 834123

VIRTUAL CLASSROOM LIVE

\$675 USD

1 Day

Virtual Classroom Live Outline

Module 1: Identify AI concepts and capabilities (40–45%)

- Describe principles of responsible AI
 - ☒ Describe considerations for fairness in an AI solution
 - ☒ Describe considerations for reliability and safety in an AI solution
 - ☒ Describe considerations for privacy and security in an AI solution
 - ☒ Describe considerations for inclusiveness in an AI solution
 - ☒ Describe considerations for transparency in an AI solution
 - ☒ Describe considerations for accountability in an AI solution
- Identify AI model components and configurations
 - ☒ Describe how generative AI models work
 - ☒ Identify an appropriate AI model, based on capabilities
 - ☒ Identify appropriate model deployment options and configuration parameters
- Identify AI workloads
 - ☒ Identify scenarios for common AI workloads, including generative and agentic AI, text analysis, speech, computer vision, and information extraction
 - ☒ Describe common text analysis techniques, including keyword extraction, entity detection, sentiment analysis, and summarization
 - ☒ Identify features and capabilities of speech recognition and speech synthesis
 - ☒ Identify features and capabilities of computer vision and image-generation models
 - ☒ Identify techniques to extract information from text, images, audio, and videos

Module 2: Implement AI solutions by using Microsoft Foundry (55–60%)

- Implement generative AI apps and agents by using Foundry
 - ☒ Create effective system and user prompts for generative AI models
 - ☒ Deploy a model and interact with it in the Foundry portal

- ☒ Create a lightweight chat client application by using the Foundry SDK
- ☒ Create and test a single-agent solution in the Foundry portal
- ☒ Create a lightweight client application for an agent
- Implement AI solutions for text and speech by using Foundry
 - ☒ Build a lightweight application that includes text analysis
 - ☒ Respond to spoken prompts by using a deployed multimodal model
 - ☒ Build a lightweight application by using Azure Speech in Foundry Tools
- Implement AI solutions with computer vision and image-generation capabilities by using Foundry
 - ☒ Interpret visual input in prompts by using a deployed multimodal model
 - ☒ Create new visual outputs by using generative models
 - ☒ Build a lightweight application that includes vision capabilities
- Implement AI solutions for information extraction by using Foundry
 - ☒ Extract information from documents and forms by using Azure Content Understanding in Foundry Tools
 - ☒ Extract information from images by using Content Understanding
 - ☒ Extract information from audio and video by using Content Understanding
 - ☒ Build a lightweight application with information extraction capabilities by using Content Understanding

Jul 20 - 20, 2026 | 12:00 - 8:00 PM EDT

Aug 21 - 21, 2026 | 9:00 AM - 5:00 PM EDT

Nov 13 - 13, 2026 | 9:00 AM - 5:00 PM EST

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

Date created: 6/8/2026 12:29:33 AM

Copyright © 2026 Global Knowledge Training LLC. All Rights Reserved.