



AI-3008: Extract insights from visual data on Azure

Course ID #: 7000-1164-ZZ-Z

Hours: 7

Delivery Method: Group Internet Based

Course Content

Description:

This 1-day course focuses on building intelligent applications that can see, interpret, and reason over images and documents using different multimodal models and agent-based tools. Learners explore how visual and document inputs can be combined with language models to enable structured extraction, analysis, and decision-making workflows. The course emphasizes practical patterns for extracting information, orchestrating tools, and grounding model responses in visual data.

Objectives:

Upon successful completion of this course, students will understand:

- Image analysis
- Image and video generation
- Content Understanding and enrichment
- Visual search and classification
- Digital asset management (DAM)
- Multimodal AI solutions

Prerequisites:

- Familiarity with Azure and Microsoft Foundry.
- Programming experience.

Target Audience:

This course is designed for developers, AI engineers, and technical professionals who want to build applications that work with images and documents using multimodal, agent-driven approaches. It's best suited for learners with basic programming experience and a general understanding of cloud or AI concepts.



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Topics:

Develop a vision-enabled generative AI application

- Introduction
- Use a vision-capable model in the Microsoft Foundry portal
- Develop a vision-based chat app
- Exercise - Develop a vision-enabled chat app
- Module assessment
- Summary

Generate images with AI

- Introduction
- What are image-generation models?
- Explore image-generation models in Microsoft Foundry portal
- Create a client application that uses an image generation model
- Exercise - Generate images with AI
- Module assessment
- Summary

Generate videos with Microsoft Foundry

- Introduction
- Deploy a video generating model
- Generate video from a prompt
- Generate video in Python
- Exercise - Generate video with Sora 2 in Microsoft Foundry
- Module assessment
- Summary

Analyze images with Content Understanding

- Introduction
- What is Content Understanding?
- Analyze images with Content Understanding
- Exercise - Analyze images with Content Understanding
- Module assessment
- Summary

Create a multimodal analysis solution with Azure Content Understanding

- Introduction
- What is Azure Content Understanding?
- Create a Content Understanding analyzer
- Use the Content Understanding API
- Exercise - Extract information from multimodal content
- Module assessment
- Summary

Create an Azure Content Understanding client application

- Introduction
- Prepare to use the AI Content Understanding API
- Create a Content Understanding analyzer
- Analyze content
- Exercise - Develop a Content Understanding client application
- Module assessment
- Summary



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Extract data with Azure Document Intelligence

- Introduction
- What is Azure Document Intelligence?
- Use the Document Intelligence Studio
- Use prebuilt models
- Train and use custom models
- Exercise - Analyze documents with Document Intelligence
- Module assessment
- Summary

Create a knowledge mining solution with Azure AI Search

- Introduction
- What is Azure AI Search?
- Extract data with an indexer
- Enrich extracted data with AI skills
- Search an index
- Persist extracted information in a knowledge store
- Exercise - Create a knowledge mining solution
- Module assessment
- Summary

Register for this class by visiting us at:

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NASBA CPE details are provided on the following pages.



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NASBA Information

Level: Intermediate

Advanced Preparation: Basic Knowledge about Azure

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.

Recommended Field(s) of Study: Computer Software & Applications

Recommended CPEs: 7.80

Policies: Course Registration, Cancellation, Refund, and Complaint Resolution

For more information regarding administrative policies such as complaint and program cancellation policies, please contact our offices at 800-639-3535 or visit us at: www.tcworkshop.com

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