KOENIG SOLUTIONS · COURSE OUTLINE

ChatGPT Copilots Using Azure OpenAI & Semantic Kernel

Learn to build ChatGPT copilots using Azure OpenAI Studio, Prompt flow, and Semantic Kernel.

1 Day	4	10	8
8 HOURS A DAY	MODULES	TOPICS	HANDS-ON LABS

COURSE OVERVIEW

This course covers Azure OpenAI's language, code, and image capabilities along with its responsible AI practices and base model deployment options. It then explains how to build a ChatGPT copilot using Azure OpenAI Studio together with Azure Storage Account, Azure Cognitive Search, and App Services, followed by prompt flow design and implementation in Azure Machine Learning Studio. The course also introduces Semantic Kernel, its components and integration with Azure OpenAI and OpenAI models, and closes with building copilot applications such as a chat summary app, a book creator app, a GitHub repo Q&A bot, and a chat copilot app.

WHO THIS COURSE IS FOR

- **AI Developers**
- **Cloud Solution Architects**
- **Software Engineers**
- **Machine Learning Engineers**
- **Copilot Developers**

PREREQUISITES

Pre-requisites:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python.
- Python Check: https://learn.microsoft.com/en-us/training/paths/beginner-python/
- C# Check: https://learn.microsoft.com/en-us/training/paths/get-started-c-sharp-part-1/

LEARNING OBJECTIVES

- Explain Azure OpenAI's language, code, and image capabilities
- Describe Azure OpenAI's responsible AI practices and access policies
- Identify Azure OpenAI base model types and deployment options
- Build a ChatGPT copilot using Azure OpenAI Studio
- Configure prompt flow in Azure Machine Learning Studio
- Explain the working and components of Semantic Kernel
- Implement semantic, native, and chaining functions in Semantic Kernel
- Develop copilot applications such as a chat summary app and Q&A bot

COURSE SYLLABUS

4 Modules, 10 Topics

01

Lab

Introduction to Azure OpenAI

TOPICS

- Azure OpenAI's language, code, and image capabilities
- Azure OpenAI's responsible AI practices and limited access policies
- Types of Azure OpenAI's base model and its deployment

02

Lab

ChatGPT Copilot Using Azure OpenAI Studio

TOPICS

- Brief Introduction to Azure Storage Account, Azure Cognitive Search, App Services and App Service Plans
- Basic workflow for Copilot Creation

03

Lab

Prompt Flow Design Using Azure Machine Learning Studio

TOPICS

Introduction to Azure Machine Learning Studio · Introduction to Prompt flow

04

Lab

Introduction to Semantic Kernel

TOPICS

- Introduction to Semantic Kernel
- Working and Components of Semantic Kernel
- Integrating SK with Azure OpenAI/OpenAI models

ChatGPT Copilot Using Semantic Kernel

4 Labs

NOTES

- To complete the hands-on labs in this course, students require an Azure subscription that has been approved for access to the Azure OpenAI service. Except Module 02 & Module 03, other labs can also be completed with OpenAI API key.
- Azure OpenAI: https://learn.microsoft.com/legal/cognitive-services/openai/limited-access.
- OpenAI API key: https://platform.openai.com/account/billing/overview

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	**Introduction to Azure OpenAI**	Creation of Azure OpenAI resource/OpenAI & accessing Playground
02	**ChatGPT Copilot Using Azure OpenAI Studio**	Build your own ChatGPT Copilot using various Azure Services
03	**Prompt Flow Design Using Azure Machine Learning Studio**	Prompt flow design and implementation
04	**Introduction to Semantic Kernel**	Basic Labs on Semantic Functions, Native Functions, Chaining Functions using Azure OpenAI/OpenAI
05	**ChatGPT Copilot Using Semantic Kernel**	■ Simple Chat Summary App ■ Book Creator App ■ GitHub Repo Q&A Bot ■ Chat Copilot App

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com | info@koenig-solutions.com