



MICROSOFT TRAINING

Custom Copilots with Azure AI Studio Course Overview

Build custom AI copilots using Azure AI Studio. Master advanced prompt engineering and integrate AI solutions effectively.

DURATION

48 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level course, "Custom Copilots with Azure AI Studio Course Overview," is meticulously designed for IT professionals, developers, and AI enthusiasts eager to master the art of building intelligent, customized AI assistants. Leveraging Microsoft's cutting-edge Azure AI Studio, participants will gain hands-on experience in developing and deploying sophisticated copilots that can seamlessly integrate into various business processes. The curriculum delves into core technologies such as Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), advanced prompt engineering, and the creation of custom skills, empowering you to craft AI solutions that are not just conversational but deeply integrated with enterprise data and workflows.

Completing this 48-hour intensive program will provide you with a significant professional edge in the rapidly evolving AI landscape. You will learn to transform complex business challenges into automated, intelligent solutions, enhancing productivity, improving decision-making, and delivering unparalleled user experiences. This course is your gateway to becoming a pivotal player in an organization's digital transformation journey, equipping you with the practical skills to architect, develop, and manage next-generation AI copilots that drive innovation and efficiency.

Duration	48 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to AI Copilots and Azure AI Studio

- Understanding Generative AI and Large Language Models (LLMs)
- Overview of Microsoft Copilot Ecosystem and its impact
- Introduction to Azure AI Studio: Workspace, Resources, and Capabilities
- Fundamentals of Custom Copilot architecture and components
- Setting up your Azure AI Studio environment for development

02 Module 2: Designing and Prompt Engineering for Custom Copilots

- Principles of effective prompt engineering for LLMs
- Advanced prompting techniques: chain-of-thought, few-shot learning, persona definition
- Designing conversational flows and user interaction strategies
- Evaluating prompt effectiveness and iterative refinement techniques
- Ethical considerations and bias mitigation in AI interaction design

03 Module 3: Integrating Data and Knowledge Bases with RAG

- Understanding Retrieval-Augmented Generation (RAG) architecture
- Preparing and ingesting enterprise data for custom copilots
- Utilizing Azure AI Search for vector search and semantic retrieval
- Connecting to external data sources and APIs for real-time information
- Strategies for grounding LLMs with proprietary and up-to-date data

04 Module 4: Developing and Customizing Copilot Skills and Extensions

- Introduction to Copilot extensibility and plugin development
- Developing custom tools and functions for enhanced copilot capabilities
- Integrating with Microsoft 365, Dynamics 365, and other services
- Orchestrating complex multi-turn workflows with AI agents

- Debugging, testing, and version control for custom copilot functionalities

05 Module 5: Deploying, Monitoring, and Securing Custom Copilots

- Deployment strategies for Azure AI solutions and custom copilots
- Monitoring copilot performance, usage, and user engagement metrics
- Implementing robust security best practices for AI applications
- Ensuring governance, compliance, and responsible AI principles
- Continuous improvement and lifecycle management of deployed copilots

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure AI Developer specializing in Conversational AI**
- > **AI Solutions Architect focused on Enterprise Productivity Tools**
- > **Prompt Engineer and AI Workflow Automation Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What foundational skills or prerequisites are recommended before enrolling in the Custom Copilots with Azure AI Studio Course to ensure a successful learning experience?

While not strictly mandatory, participants will benefit significantly from a basic understanding of cloud concepts, particularly Azure, and foundational programming knowledge (e.g., Python). Familiarity with core AI/ML concepts and data handling will also be advantageous, though the course covers necessary Azure AI Studio specifics from the ground up to ensure all learners can follow along and succeed.

Q: Beyond building basic conversational agents, what types of advanced, industry-specific copilots or intelligent applications will I be equipped to develop after completing this course?

Upon completing this course, you will be proficient in developing highly specialized copilots. This includes creating intelligent assistants for customer service automation, internal knowledge management systems, code generation and review copilots for software development teams, data analysis and reporting tools, and process automation bots tailored for specific business functions using custom skills and advanced RAG architectures within Azure AI Studio.

Q: How does this Custom Copilots course differ from more general Azure AI or Machine Learning courses, and what unique career advantage does it provide?

This course uniquely focuses on the practical application of Azure AI Studio specifically for building, customizing, and deploying 'copilot' experiences, which are sophisticated AI assistants designed to augment human capabilities. Unlike general AI/ML courses that cover broad theory or model training, this program hones in on prompt engineering, RAG implementation, tool integration, and the specific architecture of conversational AI within the Microsoft ecosystem, giving you a distinct advantage in roles requiring immediate, deployable AI solutions for enterprise productivity.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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