



MICROSOFT TRAINING

DW-200: Azure OpenAI Workshop

Learn to build and deploy intelligent AI solutions using Azure OpenAI services. Master prompt engineering and integrate advanced generative AI models.

DURATION

24 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

This intensive 24-hour DW-200: Azure OpenAI Workshop is meticulously designed for IT professionals, developers, and data scientists looking to harness the groundbreaking power of generative AI within the Microsoft Azure ecosystem. Participants will delve deep into the Azure OpenAI Service, exploring how to leverage cutting-edge large language models (LLMs) like GPT-4, GPT-3.5 Turbo, DALL-E, and Embeddings to build intelligent, innovative applications. The course emphasizes practical, hands-on experience, guiding learners through the deployment, configuration, and integration of these powerful AI capabilities into real-world solutions, all while adhering to Microsoft's responsible AI principles.

By the end of this workshop, attendees will possess the expertise to design and implement sophisticated AI-driven functionalities, from advanced natural language processing and content generation to intelligent search and code assistance. This training empowers professionals to unlock new possibilities for their organizations, enhance productivity, and create transformative user experiences by seamlessly embedding state-of-the-art AI into existing and new applications. Acquiring these skills positions individuals at the forefront of the AI revolution, making them invaluable assets in any modern tech-driven enterprise.

Duration	24 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	DW-200

COURSE CURRICULUM

01 Module 1: Introduction to Generative AI and Azure OpenAI Service

- Understanding Generative AI concepts and use cases
- Overview of Large Language Models (LLMs) and foundation models
- Introduction to Azure OpenAI Service: capabilities and benefits
- Responsible AI principles and ethical considerations
- Setting up your Azure OpenAI environment

02 Module 2: Core Azure OpenAI Models and Deployment

- Exploring GPT-3.5 Turbo, GPT-4, DALL-E, and Embeddings models
- Deploying and managing models in Azure OpenAI Studio
- Understanding model parameters (temperature, top_p, max_tokens)
- Authentication and access control for Azure OpenAI
- Cost management and resource optimization

03 Module 3: Prompt Engineering and Interaction Patterns

- Fundamentals of effective prompt engineering
- Techniques for clear and specific prompting
- Few-shot, zero-shot, and chain-of-thought prompting
- Role-playing and persona-based prompts
- Iterative prompt refinement and evaluation
- Working with different completion types (text, chat, image generation)

04 Module 4: Integrating Azure OpenAI into Applications

- Using the Azure OpenAI SDKs (Python, C#)

- Building applications with text generation and summarization
- Implementing intelligent search and retrieval augmented generation (RAG) patterns
- Integrating image generation with DALL-E
- Creating conversational AI agents and chatbots
- Monitoring and logging Azure OpenAI API calls

05 Module 5: Advanced Scenarios and Responsible AI Implementation

- Introduction to fine-tuning concepts (when and why)
- Data preparation for fine-tuning (overview)
- Implementing content moderation and safety filters
- Addressing bias and fairness in AI outputs
- Strategies for maintaining data privacy and security
- Designing user experiences with responsible AI in mind

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **AI/ML Engineer (Azure Focus)**
- > **Solutions Architect (Generative AI Specialist)**
- > **Data Scientist (LLM Application Developer)**

FREQUENTLY ASKED QUESTIONS

Q: What foundational Azure knowledge is recommended before taking the DW-200 Azure OpenAI Workshop to maximize learning?

While not strictly mandatory, participants will greatly benefit from a basic understanding of Azure fundamentals, including familiarity with the Azure portal, resource groups, and general Azure services. Experience with Python or another programming language is also highly recommended for engaging with the hands-on coding exercises and SDK integrations.

Q: How does this workshop specifically prepare me to integrate generative AI capabilities into enterprise applications beyond basic examples?

The DW-200 workshop goes beyond simple demonstrations by focusing on practical integration patterns. You'll learn to use Azure OpenAI SDKs, implement retrieval augmented generation (RAG) for enterprise data, deploy secure and scalable solutions, and apply responsible AI principles. This equips you with the skills to design, develop, and deploy production-ready generative AI features into complex business applications, addressing common challenges like data privacy and model governance.

Q: Will I gain hands-on experience deploying and customizing large language models through fine-tuning in Azure OpenAI, or is the focus primarily on leveraging pre-trained models?

The primary focus of the DW-200 workshop is on effectively leveraging the powerful pre-trained models available through Azure OpenAI Service (e.g., GPT-3.5 Turbo, GPT-4, DALL-E) and mastering prompt engineering techniques for customization. While the workshop will introduce the concepts and use cases of fine-tuning, direct hands-on deployment and extensive fine-tuning of custom LLMs are typically covered in more advanced, specialized courses due to the data and computational intensity involved. You will, however, gain substantial practical experience in deploying and interacting

with these models to solve specific business problems.

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+

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Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke