



MICROSOFT TRAINING

AI-050: Develop Generative AI Solutions with Azure OpenAI Service

Develop cutting-edge Generative AI solutions using Azure OpenAI Service. Master prompts, fine-tuning, and deployment for real-world applications.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intensive 2-hour intermediate-level course, AI-050: Develop Generative AI Solutions with Azure OpenAI Service, is meticulously designed for developers and data scientists eager to harness the transformative power of large language models (LLMs) and generative AI within the robust Microsoft Azure ecosystem. Participants will acquire hands-on skills in leveraging Microsoft's cutting-edge Azure OpenAI Service, exploring advanced models such as GPT-3.5, GPT-4, and DALL-E directly from the cloud. The curriculum delves into essential concepts including sophisticated prompt engineering, efficient model deployment strategies, and seamless integration of generative AI capabilities into real-world applications.

By successfully completing this course, you will be proficient in designing, building, and deploying intelligent solutions that can generate human-like text, articulate code, and create innovative images, thereby revolutionizing how businesses interact with data and users. You'll master navigation within the Azure AI Studio, learn to customize models for specific use cases, and implement responsible AI practices to ensure your generative AI applications are not only powerful but also ethical, secure, and compliant. This certification pathway is indispensable for professionals aspiring to remain at the forefront of AI innovation and to drive impactful, AI-powered digital transformations within their respective organizations.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	AI-050

COURSE CURRICULUM

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

- Understanding Generative AI concepts and real-world applications
- Overview of Azure OpenAI Service capabilities and available models (GPT, DALL-E, Embeddings)
- Setting up your Azure OpenAI environment and accessing services
- Exploring the Azure AI Studio for generative AI development

02 Module 2: Mastering Prompt Engineering for Generative Models

- Fundamentals of effective prompt design for text generation tasks
- Techniques for few-shot learning, context management, and role-playing prompts
- Exploring different prompt patterns for various generative tasks (summarization, translation, code generation)
- Advanced prompt strategies for controlled output and instruction following

03 Module 3: Deploying and Customizing Models with Azure OpenAI

- Deploying foundational models (e.g., GPT-3.5, GPT-4) in Azure OpenAI Studio
- Strategies for fine-tuning models for domain-specific applications (e.g., product descriptions, customer service)
- Managing model deployments, endpoints, and access keys
- Monitoring model usage and performance metrics

04 Module 4: Building Generative AI Applications

- Integrating Azure OpenAI services into applications using REST APIs and client SDKs (Python, C#)
- Developing intelligent chatbots and virtual assistants with generative capabilities
- Creating content generation tools and intelligent search experiences with embeddings
- Implementing vision-based generative solutions with DALL-E integration

05 Module 5: Responsible AI, Security, and Governance for Generative Solutions

- Implementing content filtering and moderation techniques for ethical AI use
- Understanding data privacy, security, and compliance best practices in Azure OpenAI
- Exploring ethical considerations, bias mitigation, and fairness in generative AI development
- Strategies for auditing and monitoring generative AI applications for responsible deployment

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Generative AI Developer (Azure-focused)**
- > **AI Solutions Architect (Specializing in OpenAI integrations)**
- > **Prompt Engineer and LLM Application Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What specific development skills will I acquire to build generative AI solutions using Azure OpenAI Service?

This course will equip you with practical skills in advanced prompt engineering for diverse generative tasks, deploying and managing Azure OpenAI models efficiently, and seamlessly integrating these models into custom applications using various SDKs and APIs. You will learn to design and implement intelligent solutions such as sophisticated chatbots, advanced content generators, and image creation tools, all while focusing on real-world implementation within the robust Azure ecosystem.

Q: Is prior experience with Azure services or fundamental AI concepts a prerequisite for enrolling in the AI-050 course?

While this is an intermediate-level course, a foundational understanding of cloud computing concepts and familiarity with Python programming or similar development experience is highly recommended. Prior exposure to machine learning fundamentals or general Azure services would be beneficial, as it provides a stronger context, but the course is structured to guide you specifically through the functionalities and best practices of the Azure OpenAI Service.

Q: How does completing this AI-050 course specifically contribute to advancing my career as an AI professional, particularly with Microsoft technologies?

The AI-050 course directly validates your expertise in developing cutting-edge generative AI solutions using Microsoft's Azure OpenAI Service, a highly sought-after and rapidly evolving skill in today's job market. It positions you as a specialist capable of integrating advanced AI capabilities into critical business applications, making you an invaluable asset for specialized roles such as a Generative AI Developer, an AI Solutions Architect focused on Azure-powered innovations, or a Prompt Engineer. This course serves as a significant stepping stone towards broader Azure AI certifications and leadership roles in AI innovation.

ABOUT COMPUTER PRIDE

**computerpride*****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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