



MICROSOFT TRAINING

AI-3016: Develop Generative AI Apps in Azure Course Overview

Develop and deploy Generative AI apps in Azure. Master AI-3016 skills to build innovative, intelligent solutions.

DURATION

8 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

The AI-3016: Develop Generative AI Apps in Azure course is an intermediate-level, 8-hour intensive program designed to equip developers with the practical skills needed to build cutting-edge generative AI applications using Microsoft Azure. This course delves into the core principles of generative AI, focusing on how to leverage Azure's powerful suite of AI services, including the Azure OpenAI Service, to create intelligent and innovative solutions. Participants will gain hands-on experience with large language models (LLMs) and learn techniques for prompt engineering, integrating models into applications, and designing robust generative AI workflows. Through practical exercises, you will master the art of transforming theoretical knowledge into deployable, real-world applications. This certification is ideal for developers and AI enthusiasts looking to harness the power of generative AI within the secure and scalable Azure ecosystem.

Duration	8 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	AI-3016

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 their architectures
- Introduction to Azure AI services for Generative AI
- Setting up and configuring Azure OpenAI Service
- Exploring available models (GPT-3.5, GPT-4, DALL-E) and their capabilities

02 Module 2: Prompt Engineering and Model Interaction

- Fundamentals of effective prompt engineering for LLMs
- Techniques for clear, concise, and contextual prompting
- Managing conversation history and multi-turn interactions
- Leveraging parameters like temperature, top_p, and max_tokens for output control
- Introduction to few-shot prompting and in-context learning

03 Module 3: Building Generative AI Applications with Azure

- Integrating Azure OpenAI models into custom applications
- Designing and implementing conversational AI experiences
- Applying Retrieval Augmented Generation (RAG) patterns for grounded responses
- Utilizing Azure Cognitive Search for data indexing and retrieval
- Implementing function calling and agent-like behaviors

04 Module 4: Advanced Techniques and Responsible AI

- Strategies for evaluating and improving generative AI application performance
- Monitoring and logging generative AI solutions in Azure
- Deployment considerations for scalable generative AI applications
- Understanding ethical implications and bias in generative models
- Implementing responsible AI principles and content filtering with Azure AI Safety features

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure AI Developer specializing in Generative AI**
- > **Machine Learning Engineer focused on LLM integration and deployment**
- > **AI Solutions Architect designing intelligent applications on Microsoft Azure**

FREQUENTLY ASKED QUESTIONS

Q: What specific types of generative AI applications will I be able to build after completing the AI-3016 course?

Upon successful completion, you will be proficient in building applications such as intelligent chatbots capable of natural conversation, content generation tools for various text formats (summaries, articles, creative writing), question-answering systems leveraging your own data through Retrieval Augmented Generation (RAG), and applications that integrate advanced AI features like code generation or image creation using Azure OpenAI Service. The focus is on practical, deployable solutions.

Q: What are the recommended prerequisites or prior experience needed to get the most out of AI-3016: Develop Generative AI Apps in Azure?

This course is designed for individuals with an intermediate understanding of Python programming and foundational knowledge of cloud computing, preferably with some familiarity with Azure services. Experience with basic AI/ML concepts is beneficial but not strictly required, as the course provides an overview of generative AI fundamentals before diving into Azure-specific implementations. Familiarity with Visual Studio Code or similar IDEs will also be helpful for the hands-on labs.

Q: How does this course prepare me for the latest trends in AI development, particularly with large language models on the Azure platform?

The AI-3016 course is meticulously crafted to align with the rapidly evolving landscape of generative AI. It focuses on the practical application of cutting-edge LLMs available through Azure OpenAI Service, emphasizing critical skills like advanced prompt engineering, building RAG architectures for enterprise solutions, and deploying AI models securely and scalably within Azure. You will learn to integrate these powerful models into real-world applications, directly addressing the demand for developers skilled in leveraging cloud-based generative AI technologies.

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.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke