



MICROSOFT TRAINING

AI-102: Designing and Implementing a Microsoft Azure AI Solution

Design and implement robust Microsoft Azure AI solutions. Prepare for your AI-102 exam to build intelligent applications.

DURATION

40 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The AI-102: Designing and Implementing a Microsoft Azure AI Solution course is meticulously crafted for professionals eager to leverage the power of Artificial Intelligence within the Microsoft Azure ecosystem. This intermediate-level training equips you with the practical skills to design, build, and deploy robust AI solutions that solve complex business challenges. You'll dive deep into core Azure AI services, including Cognitive Services (vision, speech, language, decision), Azure Bot Service, Azure Cognitive Search, and elements of Azure Machine Learning, learning how to integrate these powerful tools into end-to-end AI applications.

Participants will gain expertise in various facets of AI solution development, from understanding business requirements and data preparation to implementing secure and scalable AI components. The course emphasizes hands-on experience, focusing on best practices for designing intelligent applications, monitoring performance, and ensuring responsible AI implementation. By the end of this 40-hour immersive program, you will be proficient in creating sophisticated AI solutions that can transform data into actionable insights, automate processes, and enhance user experiences, making you an invaluable asset in any forward-thinking organization.

Duration	40 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	AI-102

PREREQUISITES

- Understanding of cloud computing concepts
- Familiarity with Azure portal
- Basic PowerShell or CLI experience
- Understanding of virtualization concepts

COURSE CURRICULUM

01 Module 1: Planning and Managing an Azure AI Solution

- Identifying AI solution requirements
- Designing an Azure AI solution architecture
- Securing AI services and solutions
- Monitoring and managing AI solutions
- Implementing responsible AI principles

02 Module 2: Implementing Computer Vision Solutions

- Analyzing images and videos with Computer Vision service
- Detecting and recognizing faces with Face service
- Reading text with Azure AI Vision (OCR)
- Building custom vision models with Custom Vision service
- Form processing with Form Recognizer (Document Intelligence)

03 Module 3: Implementing Natural Language Processing (NLP) Solutions

- Analyzing text with Azure AI Language service (sentiment, key phrases, entity recognition)

- Building conversational language understanding models with LUIS (Language Understanding Intelligent Service)
- Translating speech and text with Azure AI Speech Translator
- Implementing text-to-speech and speech-to-text functionality

04 Module 4: Implementing Knowledge Mining Solutions

- Designing and building Azure Cognitive Search solutions
- Ingesting and enriching data for search
- Integrating AI skills into search indexes (vision, language)
- Optimizing search relevance and experience

05 Module 5: Implementing Conversational AI Solutions

- Designing and developing bots with Azure Bot Service
- Integrating conversational AI with QnA Maker for FAQ bots
- Enhancing bot capabilities with LUIS and other Cognitive Services
- Deploying and managing bots

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure AI Engineer**
- > **AI Solution Architect**
- > **Cognitive Services Developer**

FREQUENTLY ASKED QUESTIONS

Q: What specific Azure AI services and tools will I gain hands-on expertise with during the AI-102 course?

This course provides comprehensive practical experience with a wide array of Azure AI services. You will work extensively with Azure AI Vision for image analysis and custom vision, Azure AI Language for text analytics and language understanding (LUIS), Azure AI Speech for speech-to-text and text-to-speech, Azure Bot Service for conversational AI, QnA Maker for building knowledge bases, and Azure Cognitive Search for knowledge mining. The curriculum is designed to give you a deep understanding of how to integrate these services into cohesive, intelligent applications.

Q: What are the recommended prerequisites for someone enrolling in the AI-102: Designing and Implementing a Microsoft Azure AI Solution course?

While there are no strict official prerequisites, ideal candidates for the AI-102 course should have a foundational understanding of Azure services, including Azure compute, storage, and networking. Basic programming experience in a language like Python or C# is highly beneficial for implementing the solutions. Familiarity with core AI concepts, such as machine learning and natural language processing, will also help you grasp the material more quickly, though the course will cover the practical application of these concepts.

Q: How will completing the AI-102 certification enhance my ability to design and deploy real-world AI solutions for businesses?

The AI-102 certification specifically targets the practical skills needed to move from conceptual design to actual deployment of AI solutions on Azure. You will learn to translate business problems into technical AI requirements, select appropriate Azure AI services, develop secure and scalable architectures, and implement these solutions effectively. This

includes hands-on experience in integrating various AI components, monitoring their performance, and adhering to responsible AI principles, directly enabling you to build impactful, production-ready AI applications that drive business value.

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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