



MICROSOFT TRAINING

AI-102T00: Designing and Implementing a Microsoft Azure AI Solution

Design and implement robust Azure AI solutions. Prepare for exam AI-102 and become a certified Microsoft Azure AI Engineer.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The AI-102T00: Designing and Implementing a Microsoft Azure AI Solution course is an intensive, intermediate-level training designed for AI engineers and developers looking to master the art of building intelligent applications on the Microsoft Azure platform. This program provides comprehensive coverage of Azure's powerful suite of AI services, including Cognitive Services (Vision, Speech, Language, Decision), Azure Machine Learning, Azure Bot Service, and Azure Cognitive Search. Participants will gain practical experience in designing and implementing AI solutions that can perceive, process, and act on information, making them invaluable assets in today's data-driven world. The course emphasizes both the theoretical foundations and the hands-on application of these technologies.

Upon completion, you will be proficient in selecting the right Azure AI service for specific business needs, integrating AI capabilities into existing applications, and deploying scalable, secure, and responsible AI solutions. You will learn to work with various data types, develop custom AI models, and understand best practices for MLOps (Machine Learning Operations). This expertise not only enhances your technical skill set but also positions you as a leading professional capable of driving innovation and solving complex business challenges using cutting-edge artificial intelligence, directly contributing to organizational efficiency and competitive advantage.

Duration	2 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: Introduction to Azure AI and Responsible AI

- Overview of Azure AI services
- Principles of Responsible AI
- Designing AI solutions for business needs
- Introduction to Azure Machine Learning and Cognitive Services

02 Module 2: Implementing Computer Vision Solutions

- Analyzing images and videos with Azure Computer Vision
- Detecting faces and recognizing emotions with Azure Face
- Building custom image classification models with Custom Vision
- Optical Character Recognition (OCR) and form processing

03 Module 3: Implementing Natural Language Processing Solutions

- Text analysis, sentiment analysis, and key phrase extraction with Azure Language Service
- Building language understanding models (LUIS)

- Speech-to-text and text-to-speech with Azure Speech Service
- Machine translation with Azure Translator

04 Module 4: Implementing Knowledge Mining Solutions

- Creating search indexes with Azure Cognitive Search
- Enriching data with AI skillsets (image analysis, natural language processing)
- Integrating knowledge mining into applications

05 Module 5: Implementing Conversational AI Solutions

- Designing and building bots with Azure Bot Service
- Creating QnA capabilities with QnA Maker
- Integrating LUIS for natural language understanding in bots
- Deploying and managing bots across channels

06 Module 6: Deploying, Monitoring, and Maintaining AI Solutions

- Containerizing AI models for deployment (Docker, Azure Container Instances)
- Leveraging Azure Kubernetes Service (AKS) for scalable deployments
- Implementing MLOps practices for continuous integration and delivery
- Monitoring AI solution performance and ensuring data privacy

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure AI Engineer**
- > **Cognitive Services Developer**
- > **Applied Machine Learning Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What specific Azure AI services will I gain hands-on experience with during the AI-102T00 course?

This course provides extensive practical experience with Azure Cognitive Services (including Vision, Speech, Language, and Decision APIs), Azure Bot Service, QnA Maker, Language Understanding (LUIS), Azure Cognitive Search, and elements of Azure Machine Learning for model deployment. You'll learn to integrate and leverage these services to build comprehensive AI solutions.

Q: What are the recommended technical prerequisites for someone to get the most out of the AI-102T00 course?

To fully benefit from this course, participants should have intermediate-level experience with Microsoft Azure services, including deploying and managing resources. A foundational understanding of programming concepts, particularly with Python or C#, is highly recommended, along with familiarity with REST APIs and JSON data formats. Prior exposure to basic AI or machine learning concepts would be advantageous but is not strictly required.

Q: How does completing the AI-102T00 training contribute to advancing my career as an AI or cloud solutions architect?

The AI-102T00 course directly prepares you to design and implement robust Azure AI solutions, a critical skill for AI and cloud solutions architects. You will learn to articulate design choices, integrate various AI components, and ensure solutions are scalable, secure, and adhere to responsible AI principles. This expertise is highly valued for architecting intelligent systems, leading AI projects, and demonstrating proficiency in Microsoft's AI ecosystem, opening doors to advanced architectural roles.

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+

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50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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