



MICROSOFT TRAINING

Microsoft Ai Certifications

Master Microsoft Azure AI services. Earn your Microsoft AI certifications and build intelligent, innovative solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Unlock the power of artificial intelligence with our comprehensive Microsoft AI Certifications course, designed for IT professionals and developers looking to master Microsoft's cutting-edge AI services. This intermediate-level program provides a deep dive into building, deploying, and managing intelligent solutions using Azure AI. You will gain hands-on experience with core technologies such as Azure Cognitive Services for adding intelligent APIs to applications, Azure Machine Learning for building and deploying custom machine learning models, and the principles of Responsible AI to ensure ethical and fair AI development. This course is ideal for enhancing your existing skill set and propelling your career in the rapidly evolving AI landscape. By completing this certification pathway, you will not only understand the theoretical underpinnings of AI but also acquire practical, job-ready skills to implement AI solutions across various business scenarios. From natural language processing and computer vision to predictive analytics and MLOps, this course equips you with the expertise to transform data into actionable intelligence. The benefits extend beyond technical proficiency, as you'll also gain industry recognition through Microsoft's esteemed certification, validating your ability to leverage Azure AI effectively and drive innovation within your organization. Elevate your professional profile and become a sought-after AI specialist. This course will enable you to design and implement robust AI applications, optimize machine learning workflows, and ensure your AI projects adhere to best practices for security and ethical considerations. Prepare to tackle complex AI challenges and contribute significantly to your team's success with a validated mastery of Microsoft's powerful AI ecosystem.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Microsoft AI and Azure Fundamentals

- Overview of Artificial Intelligence and Machine Learning
- Introduction to Microsoft Azure AI platform
- Understanding Azure compute and storage for AI workloads
- Exploring Azure Machine Learning workspace and resources
- Introduction to Responsible AI principles

02 Module 2: Building AI Solutions with Azure Cognitive Services

- Implementing Language Services (Text Analytics, Translator, Speech Services)
- Integrating Vision Services (Computer Vision, Face API, Custom Vision)
- Leveraging Decision Services (Anomaly Detector, Content Moderator)
- Utilizing Azure Bot Service for conversational AI
- Securing and monitoring Cognitive Services

03 Module 3: Developing and Deploying Machine Learning Models

- Data preparation and feature engineering with Azure Machine Learning
- Training and evaluating machine learning models (classification, regression)
- Automated ML (AutoML) in Azure
- Model deployment to Azure Container Instances (ACI) and Azure Kubernetes Service (AKS)
- Managing models with Azure Machine Learning registries

04 Module 4: Implementing Advanced Azure ML Concepts

- Understanding MLOps practices on Azure
- Creating and managing ML pipelines
- Monitoring model performance and drift
- Hyperparameter tuning and experiment tracking
- Introduction to deep learning on Azure

05 Module 5: Responsible AI Principles and Best Practices

- Implementing fairness and interpretability in AI models
- Understanding privacy and security in AI solutions
- Addressing bias in AI data and models
- Tools for Responsible AI (Fairness, InterpretML, Error Analysis)
- Ethical considerations for AI deployment

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure AI Engineer**
- > **Machine Learning Operations (MLOps) Specialist**
- > **Cognitive Services Developer**

FREQUENTLY ASKED QUESTIONS

Q: What are the recommended prerequisites or prior experience necessary to benefit most from this intermediate-level Microsoft AI Certifications course?

To gain the most from this course, we recommend participants have a foundational understanding of programming concepts, preferably with some exposure to Python. Basic knowledge of cloud computing concepts, particularly Azure fundamentals, would be beneficial but is not strictly required. Familiarity with data science concepts or statistics will also be advantageous, though the course will cover essential AI/ML principles.

Q: Which specific Microsoft AI certification exams does this training help prepare me for, and what skills will I gain that are directly applicable to those exams?

This course is primarily designed to equip you with the skills and knowledge needed for the Microsoft Certified: Azure AI Engineer Associate certification. It focuses on core domains such as implementing computer vision solutions, natural language processing solutions, knowledge mining solutions, and conversational AI solutions using Azure services. You'll gain practical experience in deploying and managing AI models, leveraging Azure Cognitive Services, and applying Responsible AI principles, all of which are crucial for success in the AI-102 exam.

Q: How will the skills acquired in this Microsoft AI Certifications course enable me to contribute to real-world AI projects and improve existing applications using Microsoft technologies?

The skills you acquire will empower you to design and implement AI-powered features into new or existing applications directly using Azure's robust ecosystem. You'll learn to integrate pre-built intelligent APIs from Azure Cognitive Services for tasks like sentiment analysis or object detection, build and deploy custom machine learning models for predictive analytics, and establish MLOps pipelines for efficient model management. This practical expertise means you can immediately start enhancing product intelligence, automating processes, and extracting deeper insights from data within your organization's Microsoft-centric environment.

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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