



MICROSOFT TRAINING

DW-201: Building and Modernizing AI Apps on Azure Workshop

Master building and modernizing AI applications on Azure. Prepare for your DW-201 exam and elevate your cloud AI skills.

DURATION

24 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The DW-201: Building and Modernizing AI Apps on Azure Workshop is an intensive, hands-on program designed for developers and solutions architects looking to leverage Microsoft Azure's powerful AI capabilities. This course dives deep into the practical aspects of integrating artificial intelligence into both new and existing applications. Participants will learn to utilize Azure Cognitive Services, Azure Machine Learning, and other AI tools to build intelligent features, enhance user experiences, and automate complex tasks, thereby transforming their applications into smarter, more responsive systems. You'll gain practical experience with scenarios ranging from natural language processing and computer vision to intelligent search and predictive analytics.

Duration	24 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	DW-201

COURSE CURRICULUM

01 Module 1: Introduction to Azure AI Services and Principles

- Overview of Azure AI platform capabilities
- Understanding Azure Cognitive Services: Vision, Speech, Language, Decision, Search
- Introduction to Responsible AI principles and best practices
- Azure Machine Learning basics: workspace, datasets, experiments

02 Module 2: Building Intelligent Applications with Azure Cognitive Services

- Implementing Computer Vision for image analysis and object detection
- Integrating Speech-to-Text and Text-to-Speech for voice-enabled apps
- Utilizing Language Services for sentiment analysis, entity recognition, and QnA Maker
- Developing intelligent search solutions with Azure AI Search (formerly Azure Cognitive Search)

03 Module 3: Custom AI Model Development and Integration

- Training and deploying custom machine learning models using Azure Machine Learning
- Integrating custom models into applications via REST APIs and SDKs
- Implementing MLOps principles for model lifecycle management
- Leveraging Azure Applied AI Services for industry-specific solutions

04 Module 4: Modernizing Existing Applications with Azure AI

- Strategies for identifying AI modernization opportunities in legacy systems
- Containerizing existing applications and integrating AI services
- Migrating on-premises AI workloads to Azure
- Performance optimization and cost management for AI-powered applications

05 Module 5: Deployment, Monitoring, and Security of AI Solutions

- Deploying AI applications using Azure App Service, Azure Kubernetes Service (AKS), and Azure Functions
- Monitoring AI model performance and application health with Azure Monitor and Application Insights
- Implementing security best practices for AI workloads on Azure
- Troubleshooting common issues in AI application development and deployment

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure AI Engineer**
- > **Solutions Architect (AI/ML Focus)**
- > **Data Scientist specializing in MLOps and Application Integration**

FREQUENTLY ASKED QUESTIONS

Q: What specific types of existing applications will I be able to modernize or enhance using AI after completing this workshop?

Upon completing the DW-201 workshop, you will be equipped to modernize various types of applications, including customer service portals with chatbots and sentiment analysis, e-commerce platforms with intelligent search and recommendation engines, business process automation tools with document intelligence, and enterprise applications by adding computer vision for data extraction or speech interfaces. The focus is on integrating Azure's pre-built and custom AI capabilities to add new layers of intelligence to your existing software infrastructure.

Q: What are the recommended technical prerequisites for attending this DW-201 workshop to ensure I get the most out of the hands-on labs?

To fully benefit from this intermediate-level workshop, participants should have a foundational understanding of Azure services, including Azure Portal navigation, resource groups, and basic compute services. Proficiency in a programming language like C# or Python is highly recommended, as the workshop involves coding exercises for integrating AI services. Prior experience with REST APIs and a basic grasp of machine learning concepts would also be advantageous, though the course will cover AI fundamentals specific to Azure.

Q: Beyond technical implementation, how does this workshop address the ethical considerations and responsible AI practices when building and deploying AI applications on Azure?

This workshop dedicates specific attention to the critical aspects of Responsible AI. We will cover principles such as fairness, reliability and safety, privacy and security, inclusiveness, transparency, and accountability. You'll learn how to implement features like interpretability for understanding model decisions, identify and mitigate bias in AI systems, and secure sensitive data handled by AI applications. The curriculum includes discussions and practical guidance on building AI solutions that are ethical, transparent, and trustworthy, aligning with Microsoft's Responsible AI guidelines.

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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