



MICROSOFT TRAINING

DP-3007: Train and Deploy a Machine Learning Model with Azure Machine Learning

Master training & deploying ML models using Azure Machine Learning. Earn your DP-3007 certification and accelerate your AI career.

DURATION

2 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

This 'DP-3007: Train and Deploy a Machine Learning Model with Azure Machine Learning' course is meticulously designed to equip data scientists, machine learning engineers, and AI developers with the practical skills needed to operationalize their machine learning solutions on the Microsoft Azure platform. Over two intensive hours, participants will gain hands-on experience with Azure Machine Learning, focusing on the crucial stages of model development from experimentation to robust deployment. You'll learn to leverage Azure's powerful cloud infrastructure to streamline your ML workflows, ensuring models are not only accurate but also scalable and readily available for consumption. The course covers key aspects such as setting up your Azure ML workspace, managing data, running experiments, training models using various compute targets, and ultimately deploying these models as secure, scalable web services. By the end of this course, you will be proficient in using Azure ML to bring your machine learning projects from concept to production, bridging the gap between development and real-world application. This capability is invaluable in today's data-driven landscape, where the ability to quickly and reliably deploy predictive models can provide significant competitive advantage. This certification/course enhances your technical skillset and solidifies your expertise in cloud-based machine learning operations, making you a more versatile and in-demand professional.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	DP-3007

COURSE CURRICULUM

01 Module 1: Introduction to Azure ML Workspace & Data Management

- Overview of Azure Machine Learning service and its components
- Setting up and configuring an Azure ML Workspace
- Understanding Azure ML Compute Targets (Compute Instances, Compute Clusters)
- Managing data with Azure ML Datastores and Datasets
- Data preparation techniques for model training

02 Module 2: Training and Experimentation with Azure ML

- Developing Python training scripts compatible with Azure ML SDK
- Submitting and managing experiments using Azure ML Runs
- Utilizing Automated Machine Learning (AutoML) for rapid model development
- Logging metrics, parameters, and artifacts during training
- Understanding hyperparameter tuning concepts within Azure ML

03 Module 3: Model Registration and Deployment

- Registering trained models in the Azure ML Model Registry
- Understanding model versions and lineage
- Preparing models for deployment with inference scripts
- Creating custom environments for model deployment
- Deploying models as real-time web services using Azure Container Instances (ACI) and Azure Kubernetes Service (AKS)
- Testing and consuming deployed endpoints

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Machine Learning Engineer**
- > **Cloud Data Scientist with MLOps Specialization**
- > **AI/ML Solutions Architect (Azure Focus)**

FREQUENTLY ASKED QUESTIONS

Q: What specific types of machine learning models will I learn to train and deploy using Azure Machine Learning in this DP-3007 course?

While this course focuses on the *process* of training and deploying, rather than specific algorithms, you will apply these techniques to common supervised learning scenarios such as classification and regression models. The core learning is the methodology and tools within Azure ML that are universally applicable to a wide range of model types you might develop, enabling you to operationalize virtually any scikit-learn, TensorFlow, or PyTorch model.

Q: What foundational knowledge or prerequisites are essential to succeed in this 'Train and Deploy a Machine Learning Model with Azure Machine Learning' course?

To get the most out of this course, participants should have a foundational understanding of machine learning concepts, including supervised learning, model evaluation metrics, and the basic ML lifecycle. Proficiency in Python programming is crucial, as you will be working with the Azure ML SDK. Basic familiarity with Azure cloud services (like resource groups, virtual machines) would also be beneficial but is not strictly required.

Q: How will mastering model deployment with Azure Machine Learning, as taught in DP-3007, directly enhance my career as a Data Scientist or ML Engineer?

This course directly addresses a critical skill gap in many organizations: the ability to move models from experimental development into production. By learning to deploy, monitor, and manage ML models on Azure, you will become proficient in MLOps principles, transforming you from a researcher into an engineer who can deliver tangible business value. This makes you highly valuable for roles requiring operationalization of AI solutions, accelerating your career growth in data science, machine learning engineering, or even as an AI solution architect.

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+

10,000+

50+

Years of Excellence

Professionals Trained

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