مركز الوقت للتدريب

Time Training Center

UPSKILLING EXECUTION TO BUILD AND DEPLOY AZURE AI PLATFORM COURSE

Introduction

This course provides a practical, fast-tracked path for professionals looking to build, deploy, and scale AI solutions using the Azure AI platform. Covering AI fundamentals, machine learning, computer vision, NLP, and generative AI, it prepares participants to leverage Azure services for developing intelligent applications. Ideal for IT professionals, developers, and AI enthusiasts, this course meets the growing industry demand for expertise in Azure-powered AI transformations.

Learning Objectives

- Understand Azure AI platform services and applications
- Build and deploy machine learning and computer vision models
- Create NLP solutions using Azure Cognitive Services
- Develop conversational AI and generative AI applications
- Deploy and manage AI models with Azure MLOps practices
- Implement responsible AI and secure deployment strategies

Course Details

Mode of Training	Classroom or Online
Duration	5 Days

Who Should Attend

- AI developers and machine learning engineers
- IT professionals transitioning to AI platforms
- Data scientists and solution architects
- Business and technology leaders implementing AI solutions

Certificate(s)

Participants who complete a minimum of 80% of the total training hours will receive a **Certificate of Completion** issued by **Time Training Center**. This certificate reflects their active participation and commitment to professional development in the relevant field.

Course Outline

Module 1: Introduction to Artificial Intelligence and Azure

- Overview of AI Concepts and Applications
- Types of AI Workloads and Considerations
- Responsible AI Practices and Ethical Principles
- Overview of Azure AI Platform Services

Module 2: Fundamentals of Machine Learning with Azure

- Core Machine Learning Principles (Supervised, Unsupervised, Reinforcement)
- Introduction to Azure Machine Learning
- Building and Training Machine Learning Models
- Deploying Machine Learning Models on Azure

Module 3: Computer Vision Solutions on Azure

- Concepts of Computer Vision
- Building Computer Vision Models Using Azure Services
- Deployment of Computer Vision Applications

Module 4: Natural Language Processing (NLP) Solutions

- Understanding Natural Language Processing (NLP) Workloads
- Building NLP Solutions with Azure Cognitive Services
- Key Use Cases: Text Analytics, Language Understanding (LUIS)

Module 5: Conversational AI and Bots on Azure

- Introduction to Conversational AI Concepts
- Building Bots with Azure Bot Services
- Integration with Azure AI and Language Services

Module 6: Generative AI and Advanced Use Cases

- Introduction to Generative AI (LLMs and Transformers)
- Implementing Generative AI with Azure OpenAI Service
- Creating AI Agents Using Azure AI Foundry

Module 7: Azure AI Deployment and MLOps

- Operationalizing Machine Learning (MLOps) on Azure
- Deploying AI Models Using Azure Kubernetes Services (AKS)
- Monitoring, Retraining, and Managing AI Models

Module 8: Hands-on Labs and Practical Exercises

- Building End-to-End AI Applications
- Deploying and Scaling AI Solutions
- Exploring Azure AI Studio and Azure Machine Learning Environments

Module 9: Implementing Responsible AI

- Content Safety Features in Azure AI
- Best Practices for Secure and Responsible AI Deployment

Methodology

We employ a comprehensive and applied learning strategy, integrating theory with real-world implementation:

- ❖ **Conceptual Learning**: Expert-led sessions on catalytic theory and engineering principles
- ❖ **Interactive Workshops**: Group exercises, presentations, and technical discussion forums
- ❖ **Case-Based Learning**: Industry-specific examples and troubleshooting scenarios
- ❖ **Technology Integration**: Digital tools, simulations, and catalyst modeling applications
- ❖ **Assessment**: Pre-tests, post-tests, and Competence Validation Exams for Certified courses to ensure knowledge transfer and skills validation

Note: Instructors may adjust the training approach to fit technical requirements or participant engagement levels.

Instructors

Our instructors are Azure AI specialists with extensive experience in AI development, machine learning deployment, and cloud-native solution architecture. They combine hands-on technical expertise with a deep understanding of AI best practices to ensure participants gain both practical skills and strategic insights. Detailed trainer profiles will be shared upon request.

About Time Training Center

Time Training Center is a leading professional training institute in Abu Dhabi that provides students and professionals with quality education and skill development programs. Time Training Center is accredited by the Abu Dhabi Center for Technical Vocational Education & Training (ACTVET) with a specialization in Computer and Management Training programs and certified by QA QC with ISO 9001:2015.

Operating in Abu Dhabi for over 3 decades, Time Training Center has established brand value as a high-quality Management & Technical Training Center in Abu Dhabi. We have also secured strong loyalty from corporate companies and associations with our holistic and practical teaching approach.

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