



Train. Employ. Empower.

Microsoft Certified: Azure AI Engineer Associate (AI-102T00)

Price
\$1,695.00

Duration
**4 Daytime Classes
Or
8 Evening Classes**

Delivery Methods
**Virtual, In-Person,
Private Group,**

Course Description:

CAREER SKILLS+™

This course provides an in-depth exploration of the capabilities of Microsoft Azure's AI tools and services, including Azure Cognitive Services, Azure Machine Learning, and the Bot Framework. Participants will learn how to implement AI solutions that are capable of processing and analyzing large volumes of data to develop intelligent applications. The course prepares participants for the Microsoft Certified: Azure AI Engineer Associate exam, focusing on practical applications and understanding of Azure AI technologies.

Certification Preparation:

Prepares participants for the AI-102: Designing and Implementing an Azure AI Solution certification exam.

Learning Mode: Hybrid (Instructor-Led and Self-Paced)

Duration: Varied, typically between 4-8 days of instructor-led training supplemented by extensive self-study.

Materials Provided: Digital course materials, access to Azure resources during the course, lab exercises.

Who Should Attend

This course is designed for AI engineers, data scientists, developers, and IT professionals who are involved in the planning, creating, and maintaining of AI solutions in the Azure environment.

Course Objectives

Azure Cognitive Services: Learn to integrate vision, speech, language, and decision capabilities into applications using Azure Cognitive Services.

Azure Machine Learning: Implement and manage machine learning workflows with Azure Machine Learning Service.

Bot Services: Develop, test, and deploy intelligent bots using Microsoft Bot Framework and Azure Bot Service.

AI Solution Design: Design strategies for building scalable and efficient AI solutions using Azure services.

Data Analysis and Integration: Utilize Azure tools to ingest, process, and analyze data to inform AI solution development.

Security and Compliance: Understand best practices for securing AI solutions and ensuring compliance with data privacy regulations.

Course Prerequisites

Knowledge Requirements: Fundamental knowledge of Microsoft Azure, basic concepts of AI and machine learning, proficiency in at least one high-level programming language.

Experience: Practical experience with Azure products and services, especially Azure Cognitive Services, Azure Machine Learning, and/or creating bots using the Microsoft Bot Framework.

Agenda

1. Lessons

Introduction to Azure AI Platform and Capabilities
Implementing AI Solutions with Cognitive Services
Building and Managing Machine Learning Workflows with Azure Machine Learning



DSIT, DSDT, DSDT

DSDT
888-688-4234
info@dstd.edu

Developing Intelligent Bots with Microsoft Bot Framework
Integrating AI Services with Azure Data and Storage
Solutions
Best Practices for AI Solutions Design and Scalability
Securing AI Deployments in Azure
Monitoring and Troubleshooting Azure AI Solutions
Real-World AI Solution Case Studies

2. Lab Outline

Implementing Vision Capabilities with Computer Vision API
Developing Apps with Text Analytics and Language
Understanding (LUIS)
Creating and Training Models using Azure Machine
Learning Designer
Building and Testing Bots with Azure Bot Service
Integrating Azure Search for AI Solution Data Retrieval
Applying Best Security Practices in AI Deployments
Monitoring AI Solutions with Azure Monitor and Application
Insights
Scaling AI Solutions using Azure Kubernetes Service
(AKS)