

MICROSOFT AZURE AI FUNDAMENTALS

COURSE SPECIFICATIONS

Course Code: MS-AZ-AI

Course Length: 1 Day

CertiPort Exam No: AI-900

COURSE DESCRIPTION

This course introduces fundamental concepts related to artificial intelligence (AI), and the services in Microsoft Azure that can be used to create AI solutions. The course is not designed to teach students to become professional data scientists or software developers, but rather to build awareness of common AI workloads and the ability to identify Azure services to support them. The course includes hands-on activities that involve working with data and running code, so knowledge of fundamental programming principles will be helpful.

The course is designed as a blended learning experience that combines instructor-led training with online materials on the Microsoft Learn platform (<https://azure.com/learn>). The hands-on exercises in the course are based on MS Learn modules, and students are encouraged to use the content on MS Learn as reference materials to reinforce what they learn in the class and to explore topics in more depth.

TARGET AUDIENCE

The Azure AI Fundamentals course is designed for anyone interested in learning about the types of solution artificial intelligence (AI) makes possible, and the services on Microsoft Azure that you can use to create them.

You don't need to have any experience of using Microsoft Azure before taking this course, but a basic level of familiarity with computer technology and the Internet is assumed. Some of the concepts covered in the course require a basic understanding of mathematics, such as the ability to interpret charts. The course includes hands-on activities that involve working with data and running code, so a knowledge of fundamental programming principles will be helpful.

PRE-REQUISITES

Familiarity with computers and using a web browser.

COURSE OBJECTIVES

- Describe Artificial Intelligence workloads and considerations
- Describe fundamental principles of machine learning on Azure
- Describe features of computer vision workloads on Azure
- Describe features of Natural Language Processing (NLP) workloads on Azure
- Describe features of conversational AI workloads on Azure.

LEARNING OUTLINE

1. Describe Artificial Intelligence Workloads and Considerations
 - a. Identify Features of Common AI Workloads
 - b. Identify Guiding Principles for Responsible AI
2. Describe Fundamental Principles of Machine Learning on Azure
 - a. Identify Common Machine Learning Types
 - b. Describe Core Machine Learning Concepts
 - c. Describe Capabilities of Visual Tools in Azure Machine Learning Studio
3. Describe Features of Computer Vision Workloads on Azure
 - a. Identify Common Types of Computer Vision Solution
 - b. Identify Azure Tools and Services for Computer Vision Tasks
4. Describe Features of Natural Language Processing Workloads on Azure
 - a. Identify Features of Common NLP Workload Scenarios
 - b. Identify Azure Tools and Services for NLP Workloads
 - c. Identify Considerations for Conversational AI Solutions on Azure

ASSESSMENTS

Formative assessments in the form of a knowledge questionnaire as well as minor projects will take place during the course. *Summative* assessments will be conducted at the end of the course in the form of a practical/theoretical test.

If a candidate does not wish to write a summative assessment, a Onetrust Training Solutions certificate that indicates *Attendance* will be provided.

MERSETA TRAINING PROVIDER

Onetrust Training Solutions has received full accreditation as a **merSETA Training Provider**. (Certification number: 17-QA/ACC/2313/21.)

We are in the process of extending our scope of accreditation for most of our individual training courses and skills programmes. Successful participants will receive a *Onetrust Training Solutions* certificate for the relevant courses.

MICROSOFT TECHNICAL CERTIFICATION

The Microsoft Certified Fundamentals exams are the pathway to fully understanding what cloud computing is, what options are available from Microsoft, and which options make sense for businesses to invest in. This set of exams is the starting point for students who are looking to start a career in artificial intelligence, data science, and cloud computing. With the usage of big data and artificial intelligence on the rise, the demand for data scientists is not being met—and the gap is widening.

This exam is an opportunity to demonstrate knowledge of common ML and AI workloads and how to implement them on Azure. It is intended for candidates with both technical and non-technical backgrounds.

Candidates for this exam should have foundational knowledge of machine learning (ML) and artificial intelligence (AI) concepts and related Microsoft Azure services. Data science and software engineering experience are not required; however, some general programming knowledge or experience would be beneficial.

This course is part of the Microsoft Technical Certifications Pathway to AI, Data Science, and Cloud Computing. Extra fees are applicable to write these exams.

CONTACT DETAILS

Further enquiries may be directed to:

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