LITC
COMPUTER EDUCATION

Duration: 45 hours

Microsoft Azure AI Fundamentals Exam Summary:

Note: To ensure success in Microsoft MCF Azure AI certification exam, we recommend authorized training course, practice test and hands-on experience to prepare for Microsoft Azure AI Fundamentals (AI-900) exam.

Exam Name	Microsoft Certified - Azure AI Fundamentals
Exam Code	AI-900
Exam Price	$99 (USD)
Duration	65 mins
Number of Questions	40-60
Passing Score	700 / 1000

Microsoft AI-900 Exam Syllabus Topics

- Module1):- Describe Artificial Intelligence workloads and considerations.
- Module2) Describe fundamental principles of machine learning on Azure.
- Module 3) Describe features of computer vision workloads on Azure.
- Module4) Describe features of Natural Language Processing (NLP) workloads on Azure.
- Module5) Describe features of generative AI workloads on Azure.

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Microsoft AI-900 Exam Syllabus Topics:

Module1) Describe Artificial Intelligence workloads and considerations (15-20%)

➢ Identify features of common AI workloads

- Identify features of content moderation and personalization workloads
- Identify computer vision workloads
- Identify natural language processing workloads
- Identify knowledge mining workloads
- Identify document intelligence workloads
- Identify features of generative AI workloads

➢ Identify guiding principles for responsible AI

- Describe considerations for fairness in an AI solution
- Describe considerations for reliability and safety in an AI solution
- Describe considerations for privacy and security in an AI solution
- Describe considerations for inclusiveness in an AI solution
- Describe considerations for transparency in an AI solution
- Describe considerations for accountability in an AI solution

Module2) Describe fundamental principles of machine learning on Azure (20-25%)

➢ Identify common machine learning techniques

- Identify regression machine learning scenarios
- Identify classification machine learning scenarios
- Identify clustering machine learning scenarios
- Identify features of deep learning techniques

➢ Describe core machine learning concepts

- Identify features and labels in a dataset for machine learning
- Describe how training and validation datasets are used in machine learning

➢ Describe Azure Machine Learning capabilities

- Describe data and compute services for data science and machine learning
- Describe model management and deployment capabilities in Azure Machine Learning

Module 3) Describe features of computer vision workloads on Azure (15-20%)

- **Identify common types of computer vision solution**
  - Identify features of image classification solutions
  - Identify features of object detection solutions
  - Identify features of optical character recognition solutions
  - Identify features of facial detection and facial analysis solutions
- **Identify Azure tools and services for computer vision tasks**
  - Describe capabilities of the Azure AI Vision service
  - Describe capabilities of the Azure AI Face detection service

Module4) Describe features of Natural Language Processing (NLP) workloads on Azure (15-20%)

- **Identify features of common NLP Workload Scenarios**
  - Identify features and uses for key phrase extraction
  - Identify features and uses for entity recognition
  - Identify features and uses for sentiment analysis
  - Identify features and uses for language modeling
  - Identify features and uses for speech recognition and synthesis
  - Identify features and uses for translation
- **Identify Azure tools and services for NLP workloads**
  - Describe capabilities of the Azure AI Language service
  - Describe capabilities of the Azure AI Speech service

Module5) Describe features of generative AI workloads on Azure (15-20%)

- **Identify features of generative AI solutions**
  - Identify features of generative AI models
  - Identify common scenarios for generative AI
  - Identify responsible AI considerations for generative AI
- **Identify capabilities of Azure OpenAI Service**
  - Describe natural language generation capabilities of Azure OpenAI Service
  - Describe code generation capabilities of Azure OpenAI Service
  - Describe image generation capabilities of Azure OpenAI Service

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