

PURPOSE

The following resources have been assembled to help you prepare for the AI-900 Microsoft Azure AI Fundamentals learning track during Microsoft Certification Week.

Use this guide to understand what knowledge is needed to complete the exam and as a learning tool to help you understand areas where you feel you need additional training. It is not required that you leverage all the resources in this guide to participate in Microsoft Certification Week.



AUDIENCE All Pax8 Partners

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AI-900: Exam Resources

Audience Profile for the Exam

Candidates for this exam should have foundational knowledge of cloud services and how those services are provided with Microsoft Azure. The exam is intended for candidates who are just beginning to work with cloud-based solutions and services or are new to Azure.

Azure Fundamentals exam is an opportunity to prove knowledge of cloud concepts, Azure services, Azure workloads, security and privacy in Azure, as well as Azure pricing and support.

Candidates should be familiar with the general technology concepts, including concepts of networking, storage, compute, application support, and application development.

Azure Fundamentals can be used to prepare for other Azure role-based or specialty certifications, but it is not a prerequisite for any of them.

Preparing with an Azure Subscription

It is highly recommended when preparing for a Microsoft exam, that you have had some level of hands- on experience with the services within the objectives. Microsoft courses have a GitHub repository for labs that are recommended and available to the public.

- Azure Free Trial: <u>Create your Azure free account today | Microsoft Azure</u>.
- Suggested Lab Guides: <u>https://github.com/MicrosoftLearning/AZ-104JA-MicrosoftAzureAdministrator</u>

All lab guides can be found at this link: <u>https://github.com/MicrosoftLearning</u>

Creating an Azure free subscription

Create your Azure free account today | Microsoft Azure

Exam Objectives

The following are the learning objectives for the exam. In line with each objective are links to Microsoft documentation around the specific concept or service. In addition to the documentation, there are also online courses from Microsoft Learn and the Microsoft Partner virtual training series available for additional learning resources.

Objective: Describe AI Workloads and Considerations (15-20%)

- Get started with artificial intelligence on Azure
 <u>https://docs.microsoft.com/learn/paths/get-started-with-artificial-intelligence-on-azure/</u>
- Machine Learning Solution Pitch deck ==> really good deck to prepare this module <u>https://info.microsoft.com/rs/157-GQE-382/images/KO-WBNR-Whitepaper-</u> <u>MCW0011262MachineLearnining.pdf</u>
- Anomaly Detector : An AI service that helps you foresee problems before they occur <u>https://azure.microsoft.com/en-us/services/cognitive-services/anomaly-detector/</u>
- Anomaly Detector in containers
 <u>https://docs.microsoft.com/en-us/azure/cognitive-services/anomaly-detector/anomaly-detector-container-howto</u>
- Microsoft Seeing AI talking Camera for the Blind <u>https://apps.apple.com/us/app/seeing-ai-talking-camera-for-the-blind/id999062298</u>
- Azure Cognitive service computer vision <u>https://azure.microsoft.com/en-us/services/cognitive-services/computer-vision/#features</u>
- Al demo computer vision
 https://aidemos.microsoft.com/computer-vision

- Al demo Language Understanding Intelligent Service (LUIS)
 <u>https://aidemos.microsoft.com/luis/demo</u>
- Health bot
 <u>https://www.microsoft.com/en-us/research/project/health-bot/</u>
- Guidelines for human ai interaction <u>https://aidemos.microsoft.com/guidelines-for-human-ai-interaction/demo</u>
 Responsible AI
- Responsible Ai https://www.microsoft.com/ai/responsible-ai-resources

Objective: Describe Fundamental Principles of Machine Learning on Azure (30-35%)

- Azure Machine Learning SKU
 https://azure.microsoft.com/en-us/pricing/details/machine-learning/
- Create no-code predictive models with Azure Machine Learning
 <u>https://docs.microsoft.com/en-us/learn/modules/use-automated-machine-learning/what-is-ml</u>
- Machine learning algorithms
 <u>https://azure.microsoft.com/en-us/overview/machine-learning-algorithms/</u>
- Tutorial: Predict automobile price with the designer (preview)
 <u>https://docs.microsoft.com/en-us/azure/machine-learning/tutorial-designer-automobile-price-train-score</u>

Objective: Describe Features of Computer Vision Workloads on Azure (15-20%)

- Computer Vision documentation
 <u>https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision</u>
- Classify images with the Custom Vision service <u>https://docs.microsoft.com/en-us/learn/modules/classify-images-custom-vision/</u>
 Custom Vision documentation
- Costoff vision accontentation
 <u>https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/</u>
 Sample for object detection
- Sample for object defection
 <u>https://aka.ms/fruit-objects</u>
- Azure Face detection demo https://azure.microsoft.com/en-us/services/cognitive-services/face/#demo
- What is the Azure Face service?
 <u>https://docs.microsoft.com/en-us/azure/cognitive-services/face/overview</u>
- Reading text with the Computer Vision service
 <u>https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-recognizing-text</u>

Objective: Describe Features of Natural Language Processing (NLP) workloads on Azure (15-20%)

- Explore natural language processing
 <u>https://docs.microsoft.com/en-us/learn/paths/explore-natural-language-processing/</u>
- Azure Text Analytics <u>https://azure.microsoft.com/en-us/services/cognitive-services/text-analytics/#features</u>
- Text Analytics API documentation
 <u>https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/</u>
 UVIS documentation
- LUIS documentation
 <u>https://docs.microsoft.com/en-us/azure/cognitive-services/luis/</u>

Objective: Describe Features of Conversational AI Workloads on Azure (15-20%)

- Training on Microsoft Learn
 <u>https://docs.microsoft.com/en-us/learn/paths/explore-conversational-ai/</u>
- QnA Maker portal
 <u>https://www.qnamaker.ai/</u>
- Enterprise productivity Chatbot https://docs.microsoft.com/bs-cyrl-ba/azure/architecture/solution-ideas/articles/enterpriseproductivity-chatbot
- FAQ Chatbot with data champion model <u>https://docs.microsoft.com/bs-cyrl-ba/azure/architecture/solution-ideas/articles/faq-chatbot-with-data-champion-model</u>

Virtual Training Series

This online course will provide foundational level knowledge of cloud services and how those services are provided with Microsoft Azure. The course can be taken as an optional first step in learning about cloud services and Microsoft Azure, before taking further Microsoft Azure or Microsoft cloud services courses. This course will also prepare you for the AI-900 exam.

All Virtual Training Series http://aka.ms/vts