

AI-901: Microsoft Azure AI Fundamentals

Understand what AI on Azure can and cannot do, try it yourself in the browser and prepare for the AI-901 exam in one day.

DURATION

1 day · 8 hours

LEVEL

Beginner

CURRICULUM

5 modules · 4 labs

DELIVERYLive online, Onsite,
Corporate

Course overview

AI is now part of almost every technology roadmap, and people in every role are expected to discuss it sensibly — what a language model is, why grounding matters, where an agent helps and where it creates risk. This one-day course gives you that understanding through clear explanations and short, browser-based labs on Azure.

The morning starts with core concepts: machine learning, the difference between predictive and generative AI, how large language models produce text, and what tokens, prompts and embeddings are. You then explore Azure AI Foundry, deploy a model, test prompts in the playground and see how retrieval-augmented generation grounds answers in your own content.

After lunch the course widens to agents and to the established AI workloads: computer vision, speech, natural language processing and document processing. Each is introduced with a practical business example and a short lab. Responsible AI runs through the whole day — fairness, reliability, privacy, transparency and accountability are discussed alongside each scenario rather than saved for the end.

The final session explains how fundamentals exams are structured and works through practice questions with explanations, so you know what to revise before booking.

This course is aligned to the AI-901 exam, reported as the successor to AI-900, which retired on 30 June 2026. Because the exam is new, confirm its current outline on Microsoft Learn before you book.

Highlights

- 8 hours of live, trainer-led teaching
- No coding required — every lab runs in the browser
- Generative AI, agents, vision, speech and language in one day
- Responsible AI principles applied to real examples
- Successor path for learners who planned to take AI-900

What's included

- Browser-only labs in Azure AI Foundry
- Generative AI and agents explained without jargon
- Vision, speech, language and document scenarios
- Responsible AI discussed in every module
- Practice questions with explained answers
- Course completion certificate from Ace Skills Consulting

Who this course is for

Who should attend

- Business and technical professionals new to AI
- Managers and analysts evaluating AI use cases
- Learners who were preparing for the retired AI-900 exam
- Students and graduates starting an AI or cloud career
- Developers who want a quick overview before AI-103 or AI-200

Prerequisites

- No coding or data science experience required
- Basic familiarity with cloud concepts helps (AZ-900 level)
- A laptop with a modern browser

Detailed curriculum — 1 day, 8 hours, 5 modules, 4 hands-on labs

Day 1 AI Concepts, Generative AI, Agents and AI Workloads on Azure

8 hours

1.1 AI fundamentals

- Common AI workloads and business scenarios
- Predictive vs generative AI
- Machine learning: regression, classification and clustering
- Responsible AI principles

LAB Train and test a simple model with automated ML · 25 min

1.2 Generative AI on Azure

- How language models work: tokens, context and prompts
- Prompt techniques and system messages
- Content safety
- Azure AI Foundry, models and deployments
- Grounding with retrieval-augmented generation

LAB Deploy a model and ground a chat in your own document · 45 min

1.3 AI agents

- What an agent is and how it uses tools
- Risks and human oversight
- Single-agent and multi-agent scenarios

LAB Build a simple agent with a knowledge source · 25 min

1.4 Vision, speech, language and documents

- Image analysis and optical character recognition
- Language detection, sentiment and entity extraction
- Speech to text and text to speech
- Extracting data from forms and documents

LAB Analyse images and extract fields from an invoice · 30 min

1.5 Exam readiness

- How fundamentals exams are structured
- Practice questions with explained answers

Skills and tools

Skills you will build

AI concepts

Machine learning basics

Generative AI

Prompting

RAG concepts

AI agents

Computer vision

Speech

Natural language processing

Document intelligence

Responsible AI

Tools used in class

Azure AI Foundry

Azure portal

Azure Machine Learning studio

Azure AI Vision Studio

Azure AI Language

Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam	Microsoft Azure AI Fundamentals (AI-901)
Exam code	AI-901
Delivery	Online proctored, Test centre
Validity	Does not expire
Official page	https://learn.microsoft.com/credentials/

Exam skill areas covered
Describe and implement responsible AI considerations
Describe computer vision, speech and language workloads on Azure

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

I was planning to take AI-900. What changed?

AI-900 retired on 30 June 2026 and AI-901 is the reported replacement, with more emphasis on generative AI and agents. This course covers both the classic foundations and the newer topics.

Do I need to write code?

No. All labs run in the browser using Azure AI Foundry and related studios.

Is this course useful for non-technical managers?

Yes. It is designed to help anyone evaluate AI use cases and risks, whether or not they will build solutions themselves.

What happens if Microsoft updates the AI-901 exam?

We map the curriculum to the current published skills outline and revise it when Microsoft changes the exam. Always check the latest outline on Microsoft Learn before booking.

Can you run a private batch for our team?

Yes. We run private online or onsite batches for corporate teams, and we can weight the labs towards AI use cases from your own business. Request a corporate quote with your team size and preferred dates.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/ai-901-microsoft-azure-ai-fundamentals · Email: info@aceskillsconsulting.com

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