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AI-901 Microsoft Azure AI Fundamentals

Build a strong foundation in core AI concepts and Microsoft Azure AI services.

Course description

This course is for anyone who wants to validate foundational AI skills and begin a career in AI with Microsoft certifications. It introduces the core concepts of Artificial Intelligence and shows how they are implemented using Microsoft Azure AI services, building a strong foundation for exploring the possibilities of AI in real-world scenarios.

Topics include the fundamentals of AI, machine learning workloads on Azure, computer vision concepts and services, natural language processing, conversational AI workloads and an introduction to generative AI. Learners explore how these AI workloads are applied across industries such as healthcare, retail and finance.

The course is designed for beginners and non-technical learners, and no prior programming experience is required. By the end, participants can describe core AI concepts, identify Azure AI services and their use cases, and are prepared for the Microsoft Azure AI Fundamentals certification.

Course details

Level: Beginner

Duration: 1 Day

Activities

This course includes presentations, demonstrations, and labs. Guided demos and practical exercises are designed around real-world use cases to build practical understanding of Azure AI services.

Course objectives

In this course, you will learn to:

- Describe fundamental AI concepts and workloads.
- Understand machine learning principles on Azure.
- Work with computer vision workloads and services.
- Understand natural language processing (NLP) workloads.
- Explore generative AI and conversational AI concepts.
- Identify Azure AI services and their use cases.
- Understand core AI concepts and terminology.
- Apply AI concepts in business and technical scenarios.
- See how AI is applied across industries such as healthcare, retail and finance.
- Build confidence to pursue advanced AI certifications.

Learning objectives of the AI-901 course

- Understand core AI concepts and terminology.
- Identify different AI workloads and their applications.
- Explore Azure AI services for real-world solutions.
- Understand machine learning, computer vision and natural language processing workloads on Azure.
- Explore conversational AI and generative AI concepts.
- Apply AI concepts in business and technical scenarios.
- Build confidence to pursue advanced AI certifications.

Intended audience

This beginner-level course is intended for learners who want to understand AI and Microsoft Azure AI services, including:

- Beginners exploring AI and cloud technologies.
- Business professionals understanding the impact of AI.
- Students and freshers starting AI careers.
- Non-technical roles such as sales, marketing and managers.
- IT professionals looking to transition into AI.
- Decision-makers evaluating AI solutions.

Prerequisites for the AI-901 Exam Course

Prerequisites for this beginner-level course:

- Basic computer knowledge.
- Interest in AI and cloud technologies.
- No coding experience required.
- Curiosity to learn AI concepts.

Course outline

Module 1 Fundamentals of Artificial Intelligence

Module 2 Machine Learning workloads on Azure

Module 3 Computer Vision concepts and services

Module 4 Natural Language Processing (NLP)

Module 5 Conversational AI workloads

Module 6 Introduction to Generative AI

Key features of the AI-901 course

- **Guidance by certified experts:** learn from experienced instructors who simplify AI concepts and provide industry insights.
- **Interactive hands-on labs:** get exposure to Azure AI services through guided demos and practical exercises.
- **Personalized learning plans:** structured content designed for beginners and non-technical learners.
- **Real-world use cases:** understand how AI is applied across industries like healthcare, retail and finance.
- **Learning Management System (LMS):** access course materials, practice tests and support through an integrated platform.
- **Industry-aligned curriculum:** designed as per Microsoft standards to ensure certification readiness.

Why choose CloudThat as your training partner for AI-901?

- Certified trainers with extensive enterprise AI experience, offering practical, industry-relevant insights.
- Hands-on labs built around real-world business scenarios to strengthen practical skills.
- Industry-focused curriculum aligned with the latest trends in AI, cloud technologies and enterprise solution development.
- Continuous support and mentorship throughout the learning journey for clarity, confidence and skill growth.
- Proven success with Microsoft certifications and a strong record of learner achievement and career advancement.
- Outcome-driven training focused on building job-ready skills and delivering measurable business impact.

Certification details

- The **AI-901 certification** validates your foundational knowledge of AI concepts and Azure AI services, making it ideal for beginners and non-technical professionals entering AI.

- It helps build a strong base for advanced Azure certifications such as Azure AI Engineer Associate and supports career growth in AI-related roles.
- Candidates who complete the training and pass the assessment receive a Microsoft certification that is globally recognized across industries.
- AI-901 serves as a stepping stone for roles in AI, data and cloud domains, helping learners understand real-world AI applications effectively.

Frequently asked questions

What is the AI-901 certification?

AI-901 is a Microsoft certification that validates foundational knowledge of AI concepts and Azure AI services.

Is coding required for AI-901?

No, AI-901 does not require programming knowledge. It focuses on conceptual understanding.

Who should take AI-901?

Beginners, students, business professionals and anyone interested in AI fundamentals.

Is AI-901 difficult?

No, it is an entry-level certification designed for beginners.

What is the salary after AI-901?

While AI-901 itself is foundational, it helps you move towards roles like AI Associate, which can lead to higher-paying AI careers.

Can I take AI-901 for free?

Yes, Microsoft Learn provides free learning paths for AI-901.

What are the next steps after AI-901?

You can pursue advanced certifications like Azure AI Engineer Associate or specialize in AI domains.

Does AI-901 have an exam?

Yes, you must pass the certification exam to earn the credential.

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Your course overview ends here.

But your cloud journey doesn't!

Unlock advanced training and certification pathways with **CloudThat.**

About CloudThat

Established in 2012, CloudThat is an award-winning company and the first in India to offer cloud training and consulting services for individuals and enterprises worldwide. Recently, it won Google Cloud's New Training Partner of the Year Award for 2025, becoming the first company in the world in 2025 to hold awards from all three major cloud giants: AWS, Microsoft, and Google. CloudThat notably won consecutive AWS Training Partner of the Year (APJ) awards in 2023 and 2024 and the Microsoft Training Services Partner of the Year Award in 2024, bringing its total award count to an impressive 12 awards in the last 8 years.

CloudThat specializes in Cloud Migration, Data Platforms, DevOps, IoT, and cutting-edge technologies like Gen AI & AI/ML. As a Microsoft Solutions Partner, AWS Premier Tier Training Partner, Google Cloud Platform Partner, and collaborator with leading organizations like HPE, Oracle, Nvidia and Databricks, CloudThat has trained over 850,000 professionals across 600+ cloud certifications, empowering students and professionals worldwide to advance their skills and careers.

To know more about our cloud certification training, email at sales@cloudthat.com or call us at +91-8880002200 or +1-8555588830 for those from outside India.