

A promotional banner for the AI-901 Microsoft Azure AI Fundamentals course. The banner features a dark blue background with a glowing city skyline. In the center is a stylized human head profile composed of a network of blue dots and lines, with a large blue 'A' logo above it. Surrounding the head are several icons in rounded squares: a speech bubble for 'Language & Chatbots', a document for 'Text Analysis', a camera for 'Computer Vision', and a network diagram for 'Generative AI'. Below the head, a laptop displays the Azure logo. The text 'SQL School Training Institute' is at the top left. The main title 'AI-901' is in large, bold, light blue letters, followed by 'Microsoft Azure AI Fundamentals' in white. Below this, it says 'LIVE Interactive Training | 20 Chapters | Theory + Practical'. Four icons represent course components: 'AI Concepts & Responsible AI', 'Microsoft Foundry', 'Python Hands-on', and 'Certification Preparation'. A blue button with a graduation cap icon says 'Beginner-Friendly Course for Students, Freshers & IT Professionals'. A large blue button with a right arrow says 'Register for FREE Demo'. At the bottom, contact information includes a phone icon with '+91 99514 40801', a globe icon with 'www.sqlschool.com', and the SQL School Training Institute logo.

AI-901: Microsoft Azure AI Fundamentals

Microsoft Certified: Azure AI Fundamentals | SQL School Training Institute

Audience profile

As a candidate for this Microsoft Certification, you're at the beginning of your career in AI solution development.

Pre-Requisites:

1. Python Knowledge (Basics)
2. Azure Knowledge (Basics)

WHO SHOULD JOIN?

Students, freshers, software developers, data professionals, IT administrators, cloud learners and professionals beginning their AI development journey.

Certification Skills

- ✓ Identify AI concepts and capabilities (40–45%)
- ✓ Implement AI solutions by using Microsoft Foundry (55–60%)

Course Target

- ✓ Acquiring AI Skills in Azure Cloud
- ✓ To get best score in certification exam

Training Modes

- ✓ LIVE Online Training (Duration: 1 Month)
- ✓ Self Paced Videos

DETAILED COURSE:

MODULE 1: AI Foundations & Responsible AI

Chapter 01: Introduction to Artificial Intelligence

- ✓ AI vs ML vs Deep Learning vs Generative AI; everyday AI use cases; predictive vs generative models.
- ✓ Compare outputs from a generative AI model using different business questions.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 02: Responsible AI & Model Fundamentals

- ✓ Fairness, reliability, safety, privacy, inclusion, transparency, accountability; tokens, parameters, context windows.
- ✓ Test ambiguous prompts, identify biased or unreliable responses, improve prompts.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 3: AI Workloads & Capabilities

- ✓ NLP, sentiment analysis, entity extraction, key phrases, summarization; speech, vision, multimodal AI.
- ✓ Analyze sample customer feedback and extract sentiment, entities and summaries.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 4: Introduction to Microsoft Foundry

- ✓ Foundry portal, projects, model catalog, deployments, endpoints, APIs, authentication.
- ✓ Explore a Foundry project, compare available models, and test a model in the playground.
- ✓ Learner questions, quick recap and knowledge check.

Module learning outcome: Understand AI concepts, responsible AI principles and the basic Microsoft Foundry environment.

MODULE 2: Generative AI & Prompt Engineering

Chapter 05: Generative AI & Foundation Models

- ✓ LLMs, foundation models, inference, temperature, tokens and context windows.
- ✓ Compare model responses by changing prompts and supported parameters.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 06: Prompt Engineering Techniques

- ✓ System and user prompts, role instructions, few-shot prompting, grounding, structured output.
- ✓ Create prompts for FAQ responses, customer support and JSON generation.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 07: Build a Generative AI App with Python

- ✓ Foundry SDK, endpoints, credentials, API requests and responses.
- ✓ Create a basic Python application that submits a prompt and displays an AI response.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 08: Evaluate & Improve AI Responses

- ✓ Response relevance, accuracy, hallucinations, safety, prompt evaluation.
- ✓ Test a set of prompts and revise instructions to improve answer quality.
- ✓ Learner questions, quick recap and knowledge check.

Module learning outcome: Build a simple Python-powered generative AI application and improve its responses through prompting and evaluation.

MODULE 3: AI Agents & Language Solutions

Ch 09: AI-901 Sample Questions – Part 1

- ✓ Review AI concepts, Responsible AI, model capabilities and foundational terminology.
- ✓ Solve and discuss 8–10 scenario-based practice questions.
- ✓ Learner questions, quick recap and knowledge check.

Ch 10: AI-901 Sample Questions – Part 2

- ✓ Review Foundry concepts, model deployment, prompting and application development.
- ✓ Solve 8–10 implementation-oriented practice questions and review answers.
- ✓ Learner questions, quick recap and knowledge check.

Ch 11: Build an AI Agent using Microsoft Foundry

- ✓ Agent architecture, instructions, tools, workflows, use cases and limitations.
- ✓ Create and test a single AI agent for a student course enquiry scenario.
- ✓ Learner questions, quick recap and knowledge check.

Ch 12: Text Analytics & Natural Language AI

- ✓ Sentiment analysis, named entities, key phrases, text classification and summarization.
- ✓ Build a lightweight Python text-analysis flow using an available model or service.
- ✓ Learner questions, quick recap and knowledge check.

Module learning outcome:

Strengthen exam readiness and create a basic AI agent and language-analysis workflow.

MODULE 4: Speech, Vision & Information Extraction

Chapter 13: Speech AI Solutions

- ✓ Speech-to-text, text-to-speech, speech recognition, synthesis and multimodal speech.
- ✓ Convert a short audio recording to text and generate synthesized speech.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 14: Computer Vision & Multimodal AI

- ✓ Image interpretation, image analysis, vision-language models and limitations.
- ✓ Upload a sample image and extract descriptive information using a vision-capable model.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 15: AI Image Generation

- ✓ Text-to-image generation, prompt specificity, model capabilities, accuracy and responsible use.
- ✓ Generate images from descriptive prompts and compare results.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 16: Content Understanding & Document AI

- ✓ Document extraction, structured information, forms, images, audio and video.
- ✓ Extract fields such as invoice number, date, vendor and amount into JSON using an available extraction tool.
- ✓ Learner questions, quick recap and knowledge check.

Module learning outcome:

Demonstrate how AI processes text, speech, images and business documents.

MODULE 5: Practical Integration & Certification Preparation

Chapter 17: Python Integration with Foundry

- ✓ SDK and API integration, authentication, error handling, model calls.
- ✓ Build a Python script to receive user input and return a model-generated response.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 18: Real-Time Project: AI Student Assistant

- ✓ Solution architecture, agent instructions, FAQ workflow, structured responses.
- ✓ Configure a simple AI assistant to answer questions about courses, schedules and training modes.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 19: Responsible Deployment & Solution Review

- ✓ Security, privacy, model selection, evaluation, operational cost considerations.
- ✓ Review the student assistant, test incorrect inputs, improve safety and response quality.
- ✓ Learner questions, quick recap and knowledge check.

Chapter 20: AI-901 Final Assessment & Certification Preparation

- ✓ Exam skills review, common mistakes, scenario-based reasoning and revision strategy.
- ✓ Complete a short mock assessment and review incorrect answers interactively.
- ✓ Learner questions, quick recap and knowledge check.
- ✓ Integrate core skills into a small working solution and prepare for the AI-901 certification exam.

Interview & Career Preparation

-  End-to-End Real-Time Projects & Solutions
-  100% Hands-on Practical Sessions
-  Interview Preparation
-  Assignments & Practice Labs
-  100% Practical • No Unnecessary Theory
-  Learn Like You're Working in a Real Company

BUILD REAL SKILLS. WORK ON REAL PROJECTS. BECOME JOB READY.

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🚀 Ready to Become a Certified AI Expert?

✅ Join Our Next Batch. Reach us today!

📞 Call/WhatsApp: +91 99514 40801, +919666 64 0801

🌐 www.sqlschool.com

Wish you all the best!