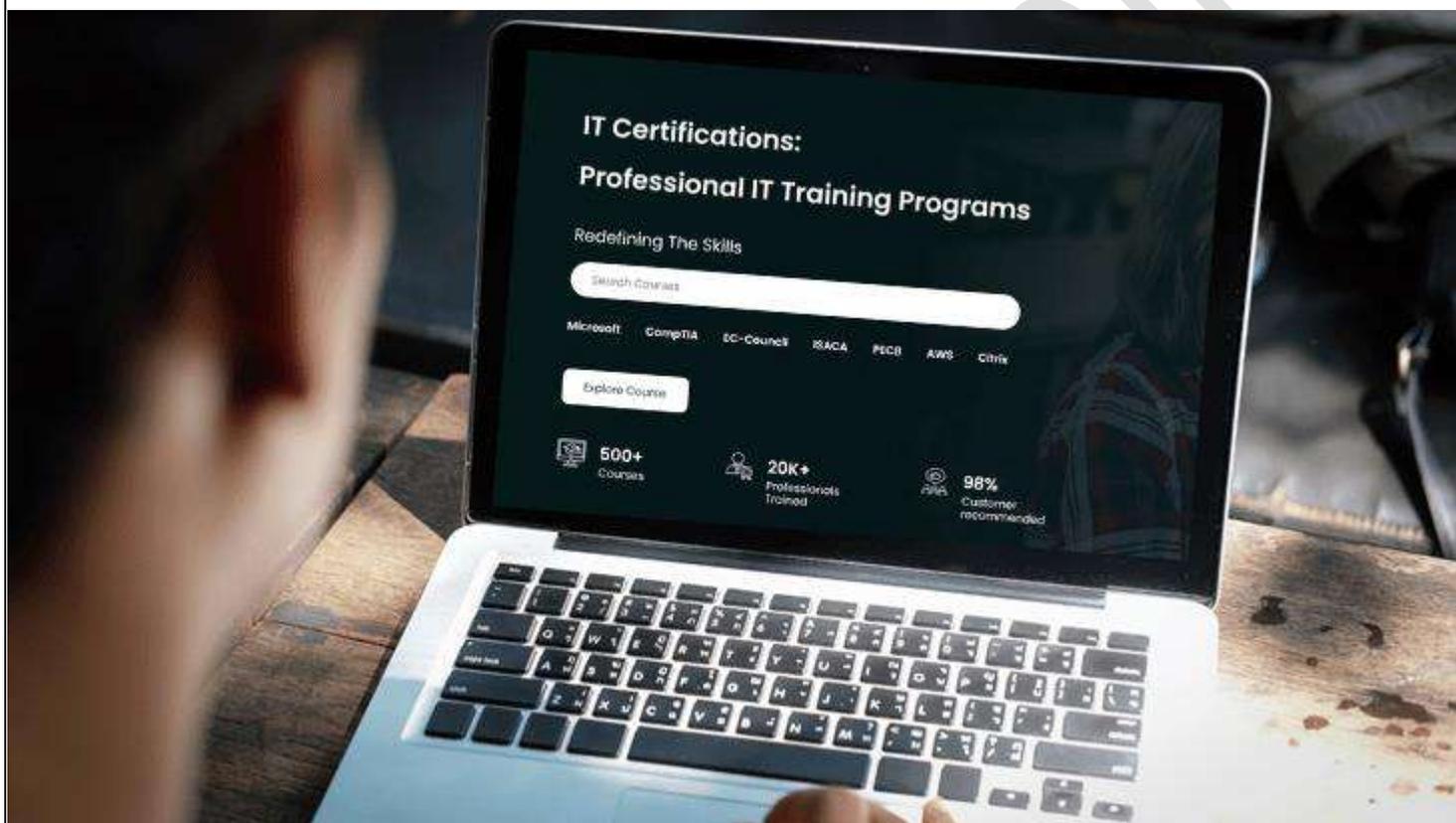




Redefining The Skills



AI-3026: Develop AI agents on Azure Training

DURATION: 1 DAY

Course Description

AI-3026: Develop AI Agents on Azure equips participants with the skills to design, build, and deploy intelligent AI agents using Azure AI Agent Service. The course covers core concepts, development approaches, and hands-on labs for creating and testing AI agents in Azure AI Foundry. Learn to integrate custom tools to enhance AI functionality, leverage the Semantic Kernel SDK to build and orchestrate multi-agent solutions, and develop strategies for AI-driven collaboration. Gain practical expertise in deploying scalable, autonomous AI systems on Azure.

Who should attend this course?

- AI Engineer

What you will learn

- Understand core concepts and development options for AI agents on Azure.
- Build, test, and integrate AI agents using Azure AI Agent Service.
- Leverage Semantic Kernel SDK to enhance AI agent capabilities.
- Integrate custom tools for advanced AI agent functionalities.
- Develop multi-agent solutions with custom collaboration strategies.
- Apply hands-on labs to gain real-world AI agent development experience.

Prerequisites

Required

- Before starting this module, you should be familiar with fundamental AI concepts and services in Azure.

Curriculum

Module 1: Get started with AI agent development on Azure

- What are AI agents?
- Options for agent development
- Azure AI Foundry Agent Service
- Exercise - Explore AI Agent development

Module 2: Develop an AI agent with Azure AI Foundry Agent Service

- What is an AI agent
- How to use Azure AI Foundry Agent Service
- Develop agents with the Azure AI Foundry Agent Service
- Exercise - Build an AI agent

Module 3: Integrate custom tools into your agent

- Why use custom tools
- Options for implementing custom tools
- How to integrate custom tools
- Exercise - Build an agent with custom tools

Module 4: Develop a multi-agent solution with Azure AI Foundry Agent Service

- Understand connected agents
- Design a multi-agent solution with connected agents
- Exercise - Develop a multi-agent app with Azure AI Foundry

Module 5: Integrate MCP Tools with Azure AI Agents

- Understand MCP tool discovery
- Integrate agent tools using an MCP server and client
- Use Azure AI agents with MCP servers
- Exercise - Connect MCP tools to Azure AI Agents

Module 6: Develop an AI agent with Semantic Kernel

- Understand Semantic Kernel AI agents
- Create an Azure AI agent with Semantic Kernel
- Add plugins to Azure AI agent
- Exercise - Develop an Azure AI agent with the Semantic Kernel SDK

Module 7: Orchestrate a multi-agent solution using Semantic Kernel

- Understand the Semantic Kernel Agent Framework
- Understand agent orchestration
- Use concurrent orchestration
- Use sequential orchestration
- Use group chat orchestration
- Use handoff orchestration
- Use Magentic orchestration
- Manage orchestration runtime lifecycles
- Exercise - Develop a multi-agent solution

Module 8: Discover Azure AI Agents with A2A

- Define an A2A agent
- Implement an agent executor
- Host an A2A server
- Connect to your A2A agent
- Exercise - Connect to remote Azure AI Agents with the A2A protocol

For any query Contact Us – Microtek Learning
