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Microsoft Agentic AI Business Solutions Architect (AB-100) Training

3 days (21 hours)

Overview

The Microsoft AB-100 Certification Training prepares you for the Agentic AI Business Solutions Architect exam and for designing secure, integrated, and scalable agentic AI solutions within the Microsoft ecosystem.

Designed for architects, senior consultants, and technical leads, this course will help you master the topics covered in the AB-100 exam—from analyzing business processes and defining an agentic-first strategy to deploying, governing, and continuously improving solutions.

You will learn to design multi-agent architectures, select the appropriate models, knowledge, and tools, and leverage Microsoft Copilot Studio, Microsoft Foundry, Microsoft 365 Copilot, Dynamics 365, and Power Platform according to business requirements. You will also be able to evaluate the costs, ROI, and architectural trade-offs associated with each scenario.

The course covers the integration of agents with enterprise applications, data, and services through connectors, APIs, and interoperability protocols such as the Model Context Protocol (MCP). You will explore the grounding, orchestration, and permissions mechanisms, as well as the safeguards required to deploy reliable agents.

You'll also learn how to structure security, responsible AI, governance, and Application Lifecycle Management (ALM) for agents. Strategies for environments, testing, phased deployment, monitoring, and value measurement will enable you to manage their lifecycle at the enterprise level.

Upon completion of the course, you will be able to analyze complex architectural scenarios, justify your technology and business decisions, and effectively prepare for the AB-100 exam to earn the Microsoft Certified: Agentic AI Business Solutions Architect certification.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Plan agent-based AI solutions aligned with business processes, data, and objectives
- Design multi-agent architectures using Microsoft Copilot Studio, Microsoft Foundry, and Microsoft business applications
- Integrate agents with data, APIs, tools, and enterprise applications
- Define requirements for security, governance, responsible AI, and compliance
- Design a strategy for ALM, environments, testing, and deployment tailored to agent-based solutions
- Monitor agents and analyze metrics for performance, quality, cost, and business value
- Prepare for the Microsoft AB-100 exam

Target Audience

- Solution Architect
- Enterprise Architect
- AI Solutions Architect
- Senior Power Platform or Dynamics 365 Consultant
- Application Architect and Technical Lead
- AI and Digital Transformation Manager

Requirements

- Experience in cloud or application solution architecture
- Knowledge of the fundamentals of generative AI, large language models (LLMs), and AI agents
- Be familiar with the Microsoft Power Platform, Microsoft 365, or Dynamics 365 ecosystem
- Understand the principles of security, governance, and integration of enterprise applications
- Be able to analyze a business process and translate functional requirements into architectural decisions
- To obtain full certification, hold an eligible Microsoft Associate certification in addition to passing the AB-100 exam

Technical Prerequisites

- Computer running Windows 10 or 11, macOS, or Linux, with at least 8 GB of RAM
- A Microsoft work account associated with a training tenant

Curriculum for our Microsoft AB-100 certification training: **Agentic AI Business Solutions Architect**

[Day 1 - Morning]

Plan an Agentic AI strategy aligned with business needs

- Understand the role of the Solution Architect and the skills assessed by the AB-100 certification
- Analyze business processes to identify opportunities for automation, AI-powered assistance, and AI-driven decision-making
- Define the business, technical, regulatory, and organizational requirements for a solution Agentic AI
- Evaluate grounding data based on its availability, recency, relevance, sensitivity, and governance
- Define an agentic-first approach and choose between building, extending, or adopting an existing AI capability
- Evaluate the business value, total cost of ownership, ROI, and metrics for measuring the solution's success

[Day 1 - Afternoon]

Design the architecture of agents and multi-agent systems

- Select agent architectures suited to the level of autonomy, tasks, and targeted business processes
- Design a multi-agent architecture and define responsibilities, interactions, and orchestration mechanisms
- Integrate Microsoft Copilot Studio, Microsoft Foundry, and Microsoft 365 Copilot into the target architecture
- Select models based on reasoning, performance, cost, security, and specialization
- Define the grounding mechanisms, knowledge, prompts, tools, and routing rules required by the agents
- Hands-on workshop: Analyze a business process, identify agent-based use cases, and design the target multi-agent architecture

[Day 2 - Morning]

Integrate agents with enterprise data and applications

- Design agents and agent-based workflows with Microsoft Copilot Studio and Microsoft Foundry
- Structuring topics, instructions, knowledge, actions, fallbacks, and generative orchestration mechanisms
- Integrating agents with Dynamics 365, Power Platform, Microsoft 365, Teams, and SharePoint
- Use connectors, APIs, tools, and actions to connect agents to enterprise applications and data
- Design the mechanisms for grounding and retrieving the information needed for agents' responses and actions

- Define data flows and responsibilities among agents, business applications, knowledge sources, and external services

[Day 2 - Afternoon]

Design the scalability, interoperability, and security of agents

- Balance the use of predefined agents, custom agents, custom models, and small language models based on the scenario
- Design extensions using the Model Context Protocol (MCP) and relevant agent interoperability mechanisms
- Define the identities, permissions, and access controls required for agents, data, connectors, and actions
- Protect solutions against prompt injections, data leaks, unauthorized use, and risks associated with external tools
- Apply the principles of responsible AI, compliance, data residency, and governance to architectural decisions
- Hands-on workshop: Design an agent connected to business data and document its tools, permissions, safeguards, and interoperability mechanisms

[Day 3 - Morning]

Scale agents with ALM, environments, and governance

- Define an environment strategy tailored to development, testing, validation, and production
- Design the Application Lifecycle Management (ALM) process for agents, connectors, actions, prompts, and associated components
- Organize versioning, dependencies, configurations, and pre-deployment approval processes
- Define agent testing strategies: scenarios, datasets, response quality, security, and business validation
- Plan phased deployments, rollback strategies, and change management
- Structure the governance of Agentic AI solutions and the responsibilities required for their operate at scale

[Day 3 - Afternoon]

Oversee Agentic AI solutions and prepare for the AB-100 certification

- Define performance, quality, adoption, cost, and business value metrics for an agent-based solution
- Leverage telemetry, user feedback, and evaluation results to improve agents, prompts, and models

- Identify incidents, deviations, and unexpected behaviors, then define remediation and continuous improvement mechanisms
- Make architecture decisions based on security, scalability, cost, maintainability, and business constraints
- Review the topics covered in the AB-100 exam syllabus, analyze exam scenarios, and solidify your approach to answering questions
- Final workshop: Solve an AB-100 case study, defend choices regarding architecture, governance, and deployment choices, and then analyze the responses

Target Audience

This training is intended for both individuals and companies—large or small—seeking to train their teams in a new, advanced IT technology or to acquire specific business knowledge or modern methodologies.

Assessment upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency level across various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% hands-on, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.