



AB-100T00: Architecting Agentic AI Business Solutions

Course ID #: 7000-1159-ZZ-Z

Hours: 21

Course Content

Course Description:

Architecting agentic AI business solutions is an advanced course for architects, senior consultants, and technical leaders responsible for planning, designing, and governing AI-powered enterprise solutions built on Microsoft platforms. This course serves as a foundational, real-world, and architectural preparation step that builds the design judgment, strategic reasoning, and end-to-end understanding learners need before pursuing the AB-100 exam or implementing agentic AI solutions at scale. Learners will explore how to architect AI-powered business solutions that use agents, copilots, and generative AI to automate tasks, improve decision-making, and enhance employee and customer experiences. Emphasis is placed on architecture, trade-offs, governance, cost/benefit analysis, and lifecycle management, rather than step-by-step configuration.

Course Objectives:

- Understand the foundational concepts of agentic AI and its applications in business environments.
- Identify key components of AI architecture and design principles.
- Evaluate business needs and define smart agent capabilities for solutions.
- Learn techniques to ensure scalability and integration of AI systems.
- Develop strategies for managing data privacy and compliance in AI implementations.
- Implement frameworks to measure AI solution effectiveness and performance.
- Explore industry-specific use cases and best practices for agentic AI.
- Gain insights into ethical considerations surrounding agentic AI deployment.
- Collaborate on real-world projects to enhance practical skills.
- Prepare for future trends and advancements in AI technology.

Prerequisites:

- Basic understanding of artificial intelligence concepts and principles
- Familiarity with business processes and how technology can enhance these processes
- Experience with data analysis and basic programming knowledge (Python is preferred)
- Awareness of cloud computing fundamentals and its application in AI solutions
- Strong problem-solving skills and the ability to think critically about technology applications in business contexts

Target Audience:

- AI Architects
- Data Scientists
- Business Analysts
- IT Managers
- Solution Architects
- Product Managers



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- Software Developers
- Project Managers
- Digital Transformation Consultants
- Entrepreneurs and Business Owners

- Technology Strategists
- Research and Development Teams
- Chief Technology Officers
- Business Intelligence Analysts

Topics:

Introduction to Agentic AI Business Solutions

- Introduction
- Drive AI transformation with architect strategies
- Explore Microsoft AI technologies for business
- Identify Microsoft AI technologies for business solutions
- Identify out-of-box Microsoft AI agent resources for business solutions
- Identify out-of-box MS AI agents for business

Analyze Requirements for AI-Powered Business Solutions

- Introduction
- Assess the use of agents in task automation, data analytics, and decision-making
- Review data for grounding accuracy, relevance, timeliness, cleanliness, and availability
- Organize business solution data for AI systems

Evaluate Costs and Benefits of AI Solutions

- Introduction
- Evaluate ROI criteria for AI-powered solutions
- Create ROI analysis for a proposed AI solution
- Analyze whether to build, buy, or extend AI components
- Implement a model router to intelligently route requests to the most suitable model

Manage Testing AI-Powered Business Solutions

- Introduction
- Recommend process metrics for testing AI agents
- Create validation criteria for custom AI models
- Validate effective Copilot prompt best practices
- Design end-to-end test scenarios for AI solutions

using multiple Dynamics 365 apps

- Build a strategy for creating test cases using Copilot

Design Extensibility of AI Solutions

- Introduction
- Design AI solutions with custom models in Microsoft Foundry
- Design agents in Microsoft 365 Copilot
- Design extensible agents in Microsoft Copilot Studio
- Design extensible agents using MCP in Copilot Studio
- Design agents to automate tasks in apps and websites with Computer Use in Copilot Studio
- Design agent behaviors in Copilot Studio
- Optimize solution design for agents in MS 365

Design Responsible AI: Security, Governance, Risk Management, and Compliance

- Introduction
- Design security agents for Microsoft clouds
- Design governance models for AI agents
- Design model security for responsible AI
- Analyze AI vulnerabilities and mitigations for prompt manipulation
- Review solution adherence to Responsible AI principles
- Validate data residency and movement compliance
- Design access controls for grounding data and model tuning
- Design audit trails for changes to models and data



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Register for this class by visiting us at:
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NASBA Information

Level: Intermediate

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.

Recommended Field(s) of Study: Computer Software & Applications

CPEs: 23.40

Policies: Course Registration, Cancellation, Refund and Complaint Resolution

For more information regarding administrative policies such as complaint and refund, please contact our offices at 800-639-3535 or visit us at: www.tcworkshop.com

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