MDAI-28 - MOC AI-500T00 - DESIGN AND IMPLEMENT MULTI-AGENT AI SOLUTIONS

Categoria: **Data & AI**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
4 Giorni	Data & AI	Microsoft Certified Trainer	Sviluppatore	Microsoft

OBIETTIVI

This course focuses on the practical skills needed to architect and develop multi-agent AI?solutions using Microsoft Foundry and Azure, validating your ability to design logical architecture for multi-agent solutions, build and integrate tool ecosystems, implement multi-agent orchestration and integration of monitoring, security and governance.

PREREQUISITI

Candidates for this course, are expert-level practitioners who have subject matter expertise in designing, building, and optimizing scalable, production-ready, multi-agent AI?systems, solutions and workflows. Out of your job role, you work closely with developers, machine learning engineers, platform engineers, data scientists, and business stakeholders to translate complex requirements into production-ready, multi-agent solutions.

CONTENUTI

Architect production-grade multi-agent AI solutions in Azure

- -Design stateful agentic loops with Microsoft Foundry agent service
- -Implement advanced multi-agent orchestration patterns in Microsoft Foundry
- -Apply task decomposition and agent collaboration strategies in Microsoft Foundry
- -Design enterprise-scale agent communication with A2A in Azure

Build production-grade multi-agent capabilities with Microsoft Foundry

- -Design advanced prompting strategies for production AI agents
- -Build enterprise-grade tool ecosystems with MCP and Microsoft Foundry
- -Implement advanced RAG pipelines with Azure AI Search and Microsoft Foundry
- -Design multi-agent memory architectures with Azure Cosmos DB

Deploy and govern enterprise agentic AI solutions on Azure

- -Implement CI/CD pipelines for multi-agent systems with GitHub Actions
- -Secure multi-agent systems with Azure zero-trust architecture
- -Scale responsible AI governance with Azure AI Content Safety and Microsoft Foundry
- -Govern the enterprise agent lifecycle in Microsoft Foundry

Monitor, evaluate, and operate multi-agent AI solutions in Azure

- -Implement distributed observability for multi-agent solutions with OpenTelemetry
- -Design evaluation frameworks for multi-agent solutions with Microsoft Foundry
- -Optimize multi-agent performance and cost in Microsoft Foundry
- -Design human-in-the-loop approval workflows with Power Automate and Microsoft Teams
- -Debug and respond to production multi-agent incidents in Azure

INFO

Esame: AI-500 - Designing and Implementing Multi-Agent AI Solutions
Materiale didattico: Materiale didattico ufficiale Microsoft in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)