

Accelerating Engineering Design in Simulink with Agentic AI

OEM: MathWorks • Duration: 1 Day (8 hrs) • Code: MW-ACCELERATING-ENGINEERING-DESIGN-IN-SI

COURSE MODULES & TOPICS

Day 1 of 1

Agentic AI Fundamentals

- Differentiate agentic AI from traditional chat-based workflows
- Explain the roles of context, tools, and review loops in agentic systems
- Identify project scope boundaries and permission considerations for agent usage
- Describe the function of skills and MCP within Simulink workflows

Simulink Agentic Toolkit Fundamentals

- Establish a connection between agents and the Simulink environment
- Explore available toolkit skills and tools
- Execute Simulink tasks using an agent
- Inspect, build, and modify Simulink models using agent support

Agentic Engineering Workflows

- Plan scoped engineering tasks suitable for agentic execution
- Review, refine, and extend Simulink models with agent assistance
- Simulate, verify, and debug model changes introduced through agent workflows
- Document engineering work produced with agent support

Custom Skills for Reusable Agent Behavior

- Identify opportunities for custom skills
- Define the structure and content of custom skills
- Implement reusable workflow guidance using custom skills
- Apply domain knowledge and standards through custom skill design