COURSE SYLLABUS

AI Agent Development for Government Workflows (Intermediate) (Self-Paced)

Build AI agents that take action - design, tools, memory, and guardrails for a single reliable agent in a real government workflow, with human oversight.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://www.graduateschool.edu/courses/ai-agent-development-for-government-workflows-intermediate-self-paced



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Course Outline

Module 1: What an AI agent really is

- Agents vs chatbots vs automation
- Anatomy of an agent: tools, memory, loop
- Good and bad agent tasks
- The government oversight angle

Module 2: Giving an agent tools

- Tool and function calling
- The MCP pattern
- Connecting to data and systems
- Safe tool design

Module 3: Memory, control, and guardrails

- Short- and long-term memory
- Bounded autonomy
- Guardrails and approvals
- Failure modes to watch

Module 4: Keeping humans in the loop

- Where to require human approval
- Logging and explainability
- Testing agent behavior
- Handling mistakes

Module 5: Build a working agent (capstone)

- Scoping a single-agent task

- Building it step by step
- Testing and hardening
- From pilot to use