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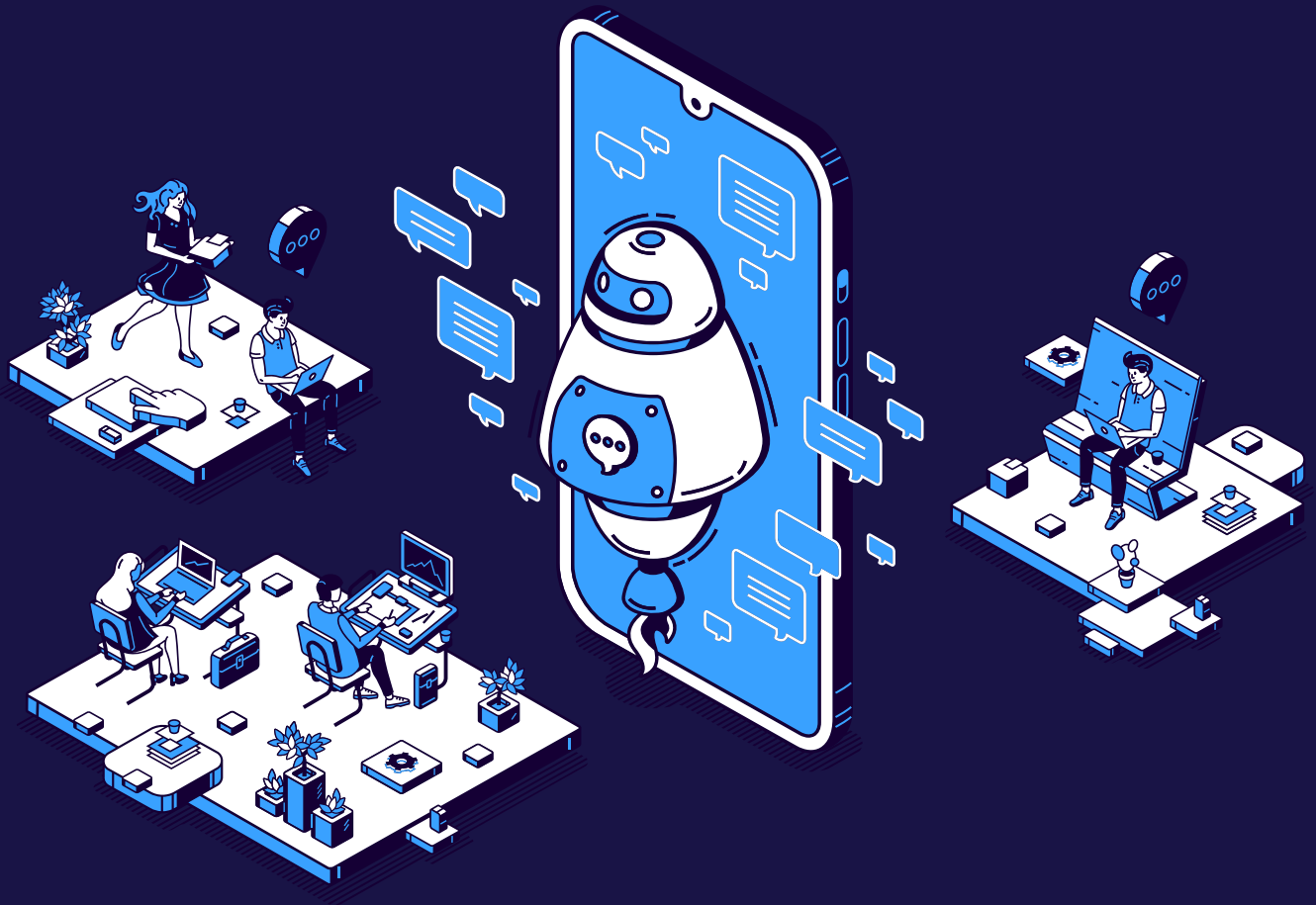
Introduction to Agentic AI for Safety Professionals: Automating Safety Workflows

Safety professionals often manage recurring tasks such as incident reporting, audit follow-ups, and compliance tracking.

This course introduces the concept of Agentic AI and demonstrates how it can automate safety workflows, consolidate data, and proactively generate safety insights. Participants will gain hands-on experience in designing a simple AI agent tailored for safety operations.

DURATION
1 day

LANGUAGE
English

COURSE CODE
AI-10225

CPD Points
Pending Approval

Course Fee
SGD$ 350/ pax
[Subject to GST]

Introduction to Agentic AI for Safety Professionals: Automating Safety Workflows

Course Objective

- **Introduce Agentic AI and its relevance to workplace safety.**
- **Show how safety workflows (incident logging, compliance reminders, audit tasks) can be automated.**
- **Demonstrate integration of safety data into AI-driven reporting and alerts.**
- **Enable participants to build a prototype AI safety agent.**

Course Content

The syllabus focuses on:

- **Understanding Agentic AI:** How autonomous AI agents support decision-making.
- **Safety Use Cases:** incident reporting, risk assessments, compliance reminders.
- **Designing Safety Agent Workflows:** triggers (incident logged), actions (alert manager, update dashboard).
- **Hands-on:** Build a simple "Safety Reporting Agent" to automate data collection and notifications.
- **Ethical & practical considerations in using AI for safety-critical environments.**

Who Should Attend

Safety Officers, Workplace Safety & Health (WSH) professionals, operations supervisors, and safety managers It is also ideal for professionals seeking to automate repetitive safety processes and leverage AI tools

Method of Study

- Face-to-face workshop with active learning environment
- Online Webinar with virtual interactive activities

Certification

Certificate of Attendance will be awarded for participant who:
- With 100% attendance

Learning Outcomes

By the end of the course, participants will be able to:

- Explain the concept of Agentic AI and its difference from traditional AI tools.
- Identify safety workflows that benefit from automation.
- Design a basic safety AI agent to automate repetitive safety tasks.
- Apply AI agents to enhance reporting speed and accuracy in safety operations