

# Srivardhan Academy of Applied Intelligence

## Module 1 — Orientation & Foundations of AgentOps

### Lesson 1: Introduction to AgentOps

Field	Detail
Duration	1.5 hours (Reading: 45 min + Activities: 45 min)
Level	Beginner
Prerequisites	Basic understanding of ChatGPT or automation tools
Author	Srivardhan Academy of Applied Intelligence (SAAI)
Video Walkthrough	<a href="https://youtu.be/dQw4w9WgXcQ">https://youtu.be/dQw4w9WgXcQ</a>
External Resource Folder	<a href="https://drive.google.com/folder/saai-agentops-lesson1">drive.google.com/folder/saai-agentops-lesson1</a>

### Lesson Overview

#### Learning Objectives

- Define what AgentOps means and its relevance.
- Understand AI agents, workflows, and APIs.
- Recognize AgentOps as operational AI.
- Visualize lifecycle from design to feedback.

**Why It Matters:** AgentOps unites reasoning and execution, turning AI into digital assistants that perform real tasks.

### Core Concept Exploration

**“AgentOps is to AI what DevOps was to Software.”**

AgentOps = Agent + Operations.

Studies how digital agents are designed, deployed, and managed like employees.

Component	Function
LLM (Language Model)	Thinks and reasons
API	Communicates and acts
Workflow Tool	Orchestrates actions
Human-in-the-loop	Supervises and corrects

## Case Example – The Export Assistant

A firm receives 20 daily product inquiries.

Traditionally, staff manually read and prepare quotations.

An AI Agent built with n8n + OpenAI can:

1. Read emails
2. Extract data
3. Generate quote
4. Send email

**Result:** 80% reduction in manual work.

## Research Prompts

1. What is n8n?
2. Difference between workflow automation and AI reasoning?
3. Define “autonomous agent.”
4. Identify a startup using AI agents.

**Outcome:** Builds curiosity and real-world linkage.

## Walkthrough / How-To Guide

**Objective:** Set up your AgentOps environment.

1. Visit <https://n8n.io> and sign up.
2. Explore dashboard.
3. Read OpenAI API docs.
4. Identify key parameters.
5. Compare n8n, Make.com, and Zapier.

Step	Purpose	Action	Reflection
1	Understand AI Operations	Watch intro video	How can automation help?
2	Tool Familiarization	Open n8n dashboard	How do workflows look?
3	API Basics	Read about webhooks	Can it listen and act?
4	Sketch Agent	Draw workflow	Identify input, process, output
5	Reflection	Write 100 words	Upload reflection

## Reflection Questions

- What tasks would you delegate to AI?
- Where should humans remain involved?
- How does context improve reliability?
- What ethical concerns exist?

Type	Link	Description
■ Docs	<a href="https://docs.n8n.io/getting-started/">https://docs.n8n.io/getting-started/</a>	Workflow basics
■ Video	<a href="https://youtu.be/dQw4w9WgXcQ">https://youtu.be/dQw4w9WgXcQ</a>	Intro to AI Agents
■ Blog	<a href="https://python.langchain.com/docs/modules/agents/">https://python.langchain.com/docs/modules/agents/</a>	LangChain Agents Overview
■ API Docs	<a href="https://platform.openai.com/docs/api-reference">https://platform.openai.com/docs/api-reference</a>	OpenAI endpoints

## Exercise / Mini Project – Sketch Your First Digital Employee

**Task:** Create an AI Agent workflow (input → process → output).

**Deliverables:** Diagram + 200-word explanation + optional Loom video.

Criteria	Description	Weight
Conceptual Clarity	Understanding of AgentOps framework	30%
Technical Insight	Accuracy of logic	25%
Originality	Novelty of idea	25%
Documentation	Quality and presentation	20%