

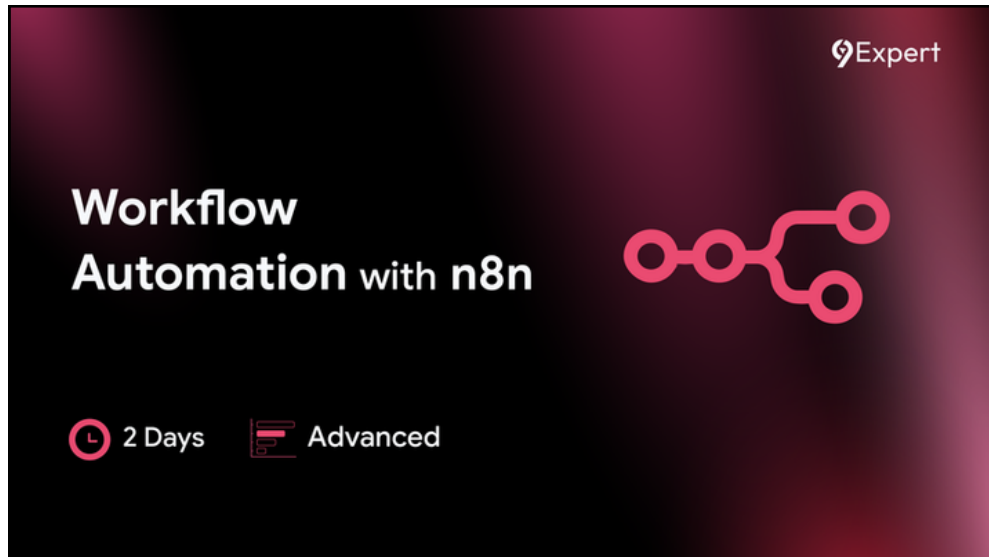


WORKFLOW AUTOMATION WITH N8N

Course ID : N8N-L1



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Duration: 2 Days

(12 Hours) 09:00 AM – 04:00 PM



Price: 14,900 THB

* The stated price excludes VAT.

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Artificial Intelligence, Robotic Process Automation

n8n is a powerful open-source platform for workflow automation and orchestration. It enables flexible integration and collaboration with various services through a visual interface, reducing the need for coding. This allows for rapid and efficient automation system development and AI integration.

Objectives

1. Understand the fundamentals of AI, automation, LLMs, and AI agents.
2. Gain confidence in using n8n, from basic to advanced workflow creation.
3. Comprehend flow control principles and error handling in workflow automation.
4. Install n8n as a self-hosted solution on personal infrastructure.
5. Connect to leading LLMs (OpenAI, DeepSeek, Gemini) and build simple AI agents.

Objectives

6. Integrate with popular services such as Google Services and LINE Messenger.
7. Explore and experiment with NLP, computer vision, and video generation technologies via n8n.
8. Compare n8n with other tools such as Microsoft Power Automate.
9. Design and present personal automation projects.

Target Audience

1. Individuals seeking to install and manage self-hosted n8n
2. Those aiming to build robust and complex workflows
3. Individuals interested in deepening their understanding of AI, LLMs, and workflow automation
4. Learners wishing to master n8n from fundamentals to advanced topics, including flow control and error handling

Prerequisites

1. Basic knowledge of computer and internet usage
2. Familiarity with automation tools or systems
3. Interest in developing workflow automation and integration skills

System Requirements

1. Windows 10/11 (64-bit), macOS
2. Web browser: Google Chrome, Mozilla Firefox, Microsoft Edge
3. Internet

TRAINING TOPICS



DAY 1 Morning Session

9:00 AM – 12:00 PM

1. Introduction to n8n and Other Workflow Automation Tools

- What is n8n? Key features and capabilities
- The meaning and importance of workflow automation (workflow orchestration)
- Comparison of n8n with other tools (Zapier, Make, Microsoft Power Automate): advantages, disadvantages, and use cases
- Exploring the n8n interface: Canvas, Nodes Panel, Parameters, Execution Log
- Key node types: Triggers, Regular Nodes, Core Nodes
- Real-world use cases for n8n

2. Introduction to AI, LLMs, and Automation

- AI in daily life and business
- Overview of LLMs: ChatGPT, Claude, DeepSeek, Gemini, and others
- Concepts and potential of AI agents

3. Installing and Using n8n

- n8n Cloud vs. n8n Open Source
- Using n8n via the cloud
- Self-hosting n8n
- Architecture overview: n8n + PostgreSQL + Cloudflare Tunnel
- Quick installation with Portainer Template

- Domain and SSL setup via Cloudflare
- Configuring essential environment variables (Webhook URL, Timezone, User Management)
- Importing pre-built workflows
- Requesting API keys and setting credentials in n8n

DAY 1 Afternoon Session

1:00 PM – 4:00 PM

4. Workflow Creation Fundamentals and Flow Control

- Triggers: starting workflows (Manual, Webhook, Schedule, App Triggers)
- Data flow: transferring data between nodes (JSON/Item structure)
- Data transformation: managing and transforming data (Set Node, Expressions, Function Item Node)
- Flow control – branching:
 - IF Node: creating Yes/No conditions
 - Switch Node: creating multi-branch conditions
- Flow control – merging:
 - Merge Node: combining workflow paths
- Debugging: techniques for data inspection and basic error correction

5. Workshop – First Automation Workflow

- Creating a webhook to receive data from Google Forms (or Typeform/Tally)
- Processing and sending data to Google Sheets
- Applying IF Node: data validation and conditional notifications
- Scheduling notifications via Email and LINE Messenger
- Activity: practice building automation workflows using flow control

6. Connecting to LLM APIs

- Using OpenAI, DeepSeek, and Gemini APIs
- Utilizing chat completion and function calling (if available)
- Comparing capabilities and costs of each model
- Example: receive message → sentiment analysis/categorization → automated response

DAY 2 Morning Session

9:00 AM – 12:00 PM

7. Workshop – NLP Automation with Gmail

- Using Gmail Trigger/Node to read new emails
- Applying LLMs to summarize, analyze sentiment, or categorize emails
- Using flow control for subsequent actions (e.g., forwarding to teams, saving to Sheets, creating tasks)
- Basic error handling: using "Continue on Fail"

8. Advanced Workflow Management

- Flow control – looping & batching
- Split in Batches Node: processing large data sets
- Looping patterns: methods for iterative processing
- Error handling:
 - Error Trigger: capturing and managing errors
 - Creating dedicated error-handling workflows
- Sub-workflows: invoking other workflows (Execute Workflow Node)
- Scheduling & cron jobs: setting up complex schedules

9. Introduction to Vector DB and RAG

- Fundamentals of embedding and semantic search
- Building a knowledge base for AI agents
- Example: creating a Q&A workflow using internal data (via supported n8n nodes)

 **DAY 2** Afternoon Session

1:00 PM – 4:00 PM

10. Workshop – Computer Vision & Video Generation

- Computer vision: connecting to Replicate/HuggingFace for object detection, OCR, or image analysis
- Video generation: connecting to Pika Labs/Runway to generate videos from text or images
- Demonstration: building a workflow to receive input (image/text) → call API → store results

11. Best Practices and Final Project

- Best practices: node naming, workflow organization, credential management, versioning, security considerations
- Final project: learners design and build an AI automation workflow based on their interests or real-world problems
- Presentation: project showcase, discussion, and Q&A



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Published Date: 1 June 2026 | [Page : 4](#)