Reference: YAS/EN/N8N

n8n and AI Training Course

Building Autonomous and Intelligent Workflows without Code

Duration: 3 Days | Hours: 18 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

Intelligent automation is no longer a luxury — it is a necessity. With n8n, an open-source automation platform, and the integration of powerful AI APIs (such as OpenAI, Anthropic, HuggingFace, Mistral, Stability), it is now possible to create advanced workflows without writing a single line of code.

This practical AI Automation with n8n training course gives you the keys to automate time-consuming tasks, connect services together and integrate artificial intelligence into your business flows. Through hands-on labs, you will design AI agents, build retrieval-augmented workflows, connect services via APIs and webhooks, and structure scalable automations that hold up in real-world business contexts.

LEARNING OBJECTIVES

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

- Understand the logic and structure of an automated workflow with n8n
- Integrate cloud services and APIs in a visual, code-free environment
- Use generative AI (OpenAI, Anthropic, Mistral) in automated flows to enrich or make decisions
- Create robust automations: monitoring, email, data processing, text or image generation
- Manage errors, loops, conditions, branches and scalability
- Secure connections, use webhooks and interact in real time

PREREQUISITES

- Basic knowledge of web tools (APIs, JSON formats, HTTP)
- Comfortable using a browser; basic knowledge of automation (Zapier, Make, IFTTT) is a plus
- No need to know how to code, but logical thinking and rigour are essential

> *Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.*

TARGET AUDIENCE

IT and Ops profiles, marketing automation specialists, consultants, project managers and no-code developers.

DETAILED PROGRAMME

> The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Introduction to Intelligent Automation

- Challenges of modern automation and concrete business use cases
- n8n's positioning in the no-code/low-code ecosystem
- Comparison with Zapier and Make: when to choose what

Module 2 – Getting Started with n8n

- Installation: self-hosted vs n8n Cloud
- Workspace, nodes, triggers and actions
- First workflows and execution logs

Module 3 – Connecting External Services

- API connections: Notion, Google Sheets, Slack, Discord, Trello, Airtable
- API key management, authentication and security
- Webhooks and real-time integrations

Module 4 – Integrating Artificial Intelligence into Your Workflows

- Calls to OpenAI, Anthropic Claude and HuggingFace APIs
- Text generation, classification, summarisation, image and data analysis
- Best practices for automated prompt engineering

Module 5 – Building AI Agents with n8n

- LangChain-based agent nodes
- Vector store integrations: Qdrant, Pinecone, Supabase
- Tool-calling patterns and autonomous decision-making

Module 6 – Structuring Robust and Scalable Workflows

- Loops, conditional execution, multi-branches and error handling
- Alerts, logs and observability
- Variables, data formats and code nodes (JavaScript / Python)

Module 7 – Customised Case Studies

- Automatic AI monitoring with weekly summary by email
- Automatic generation of customer responses using AI, with routing by criticality
- Final project tailored to participant's professional context

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts