



N8N

NODES . TRIGGERS . EXPRESSIONS
HOOKS . APIS . AI STEPS
SELF-HOSTING . ERROR HANDLING

DURATION

25 Hours

LEVEL

**Beginner to
Intermediate**

MODULES

8

MODE

**Classroom ·
Online · Hybrid**

01 COURSE OVERVIEW

An n8n course on building self-hosted automation

workflows with APIs and AI steps. n8n is taught for teams that need automation without per-task pricing: node types, expressions, data mapping, webhooks, custom HTTP calls, AI nodes, and self-hosted deployment with credential management and error workflows.

Learners deploy a self-hosted instance and build four production workflows.

WHO IT IS FOR

Operations and marketing teams

Developers automating internal tasks

Agencies delivering automation

Startups avoiding SaaS sprawl

PREREQUISITES

Basic API awareness. Docker familiarity helps for self-hosting.

02 LEARNING OUTCOMES

01 Build workflows with triggers, nodes and branches.

03 Call any REST API with authentication.

05 Add AI steps for classification and drafting.

07 Design error workflows and alerting.

02 Map and transform data between services.

04 Handle pagination, retries and rate limits.

06 Deploy and secure a self-hosted instance.

08 Document and version workflows.

01 N8N FOUNDATIONS

Concepts

Editor UI

Credentials

Cloud vs self-hosted

Executions

Pricing model

02 NODES AND TRIGGERS

Trigger types

App nodes

Manual runs

Core nodes

Schedule and webhook triggers

LAB

FIRST WORKFLOW

03 DATA AND EXPRESSIONS

Item structure

Set and Code nodes

Date and string functions

Expressions

JSON handling

LAB

DATA MAPPING

04 CONTROL FLOW

IF and Switch

Split in batches

Wait

Merge

Loops

Sub-workflows

05 APIS AND WEBHOOKS

HTTP Request node

Pagination

Incoming webhooks

Auth methods

Rate limits

Response handling

LAB

API INTEGRATION

06 AI WORKFLOWS

AI nodes

Classification and routing

Cost control

Prompt design in workflows

Vector store nodes

LAB

AI EMAIL TRIAGE

07 RELIABILITY

Error workflows

Idempotency

Alerting

Retries

Logging

Testing strategies

08 SELF-HOSTING AND OPS

Docker deployment

Queue mode

Upgrades

Environment variables

Backups

Access control

PROJECT

FOUR PRODUCTION WORKFLOWS

04 ASSESSMENT & CERTIFICATION

Module assignments and labs

25%

Mini projects

20%

Internal assessments

15%

Final project and review

40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

AUTOMATION ENGINEER

INTEGRATION SPECIALIST

OPERATIONS ENGINEER

GROWTH ENGINEER

TECHNICAL CONSULTANT

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