AMBIENT-IT

+33 (0)1 48 10 09 46
formation@ambient-it.net
140 Avenue Jean Lolive 93500 Pantin - France

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Inngest Training

2 days (14 hours)

Overview

Inngest is a sustainable, event-driven execution platform designed to orchestrate reliable workflows, asynchronous processing, and production-ready AI agents.

Our Inngest training will equip you with the skills needed to design resilient business processes without having to manage a queueing infrastructure or a dedicated workflow engine.

You'll learn how to model events, create functions triggered by events, schedules, or webhooks, and then structure workflows using steps, waits, and retries.

The training also covers the management of retries, idempotence, concurrency, throttling, and fan-out to secure integrations with your APIs, databases, and AI models.

By the end of the training, you'll be able to develop, test, and monitor Inngest workflows, particularly to automate business processes and orchestrate robust agent-based processing.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand Inngest's principles of durable execution and event-driven architecture
- Design functions triggered by events, schedules, and webhooks

- Structure reliable workflows using steps, timeouts, and event expectations
- Configure retries, idempotence, concurrency, and throttling
- Orchestrate parallel processing and AI agents using decoupled functions
- Test, diagnose, and monitor workflow executions

Target Audience

- TypeScript Developer
- Backend developer
- Full-stack developer
- AI Engineer
- Software Architect

Requirements

- Proficiency in the fundamentals of TypeScript or JavaScript
- Experience developing APIs with Node.js
- Knowledge of asynchronous communication and JSON formats
- Basic understanding of web service design and error handling

Technical Requirements

- Computer running Windows, macOS, or Linux with at least 8 GB of RAM
- Node.js 20 LTS or later and npm installed
- Visual Studio Code or a TypeScript-compatible IDE
- An Inngest account and access to a stable internet connection without blocking filters

Our Inngest Training Program

[Day 1 - Morning]

Fundamentals of Sustainable Execution

- Inngest’s role in an event-driven architecture and use cases for asynchronous processes
- Principles of durable execution, state persistence, and fault tolerance
- Anatomy of an Inngest function, configuration, triggers, and execution context
- Event modeling, naming conventions, and payload design
- Installing the TypeScript SDK, setting up a development server, and exposing functions
- Hands-on workshop: Setting up a TypeScript project, sending an event, and running your first Inngest function.

[Day 1 - Afternoon]

Building Resilient Workflows

- Breaking down a process into atomic, replayable, and observable steps
- Using `step.run` to isolate side effects and reuse persisted results
- Error handling, retries, backoff, and diagnosing transient failures
- Idempotence, data consistency, and securing calls to external services
- Timing, scheduling, and synchronization with `step.sleep` and `step.waitForEvent`
- Hands-on workshop: Build an order-processing workflow with validation, timing, error recovery, and final notification.

[Day 2 - Morning]

Parallel orchestration and AI agents

- Triggering multiple functions from a single event and the fan-out principle
- Choosing between parallel steps, event dispatch, and direct function invocation
- Batch processing, workload partitioning, and result aggregation
- Orchestration of AI agents, model calls, subtasks, and asynchronous coordination
- Designing agent-based workflows that are robust against delays, provider errors, and incomplete responses
- Hands-on workshop: Orchestrating an AI pipeline for summarization, classification, and information extraction
  triggered by a document upload.

[Day 2 - Afternoon]

Workflow control and deployment

- Configuring concurrency by function, business key, and scope
- Mastering throttling, rate limiting, and protection of third-party APIs
- Management of permanent failures, compensation strategies, and incident handling
- Event monitoring, run inspection, traces, and execution analysis
- Deployment best practices, environment management, and production readiness
- Hands-on workshop: finalizing an agent-based workflow with concurrency limits, failure handling, and execution monitoring.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in a new advanced IT technology or to acquire specific business knowledge or modern methods.

Prerequisites

The assessment process upon entering the training program complies with Qualiopi quality standards. Upon final enrollment, the learner receives a self-assessment questionnaire that allows us

assess their estimated proficiency with various types of technology, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth operation of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.

Training organization registered under number 11 75 54743 75. This registration does not constitute state accreditation.
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