



# MFE-IT

Reference: PH/EN/N3

## Nuxt.js Training Course

Create High-Performance Web Applications with Vue.js and SSR

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*Duration: 2 Days | Hours: 14 h*

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

## DESCRIPTION

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Nuxt.js is a framework based on Vue.js that allows you to create high-performance, scalable and well-referenced web applications. Thanks to server-side rendering (SSR), static site generation (SSG) and the flexibility of its architecture, Nuxt has become a strategic choice for modern web projects.

This Nuxt.js training course guides you through the practical use of Nuxt, creating a complete application step by step, with API integration, route management, SEO optimisation, performance tuning and deployment.

## LEARNING OBJECTIVES

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

- Understand the architecture of Nuxt.js and how it compares to Vue.js
- Create an application with server-side rendering (SSR) and dynamic routes
- Use Nuxt features: pages, layouts, store, middleware and SEO meta tags
- Integrate external APIs (REST or GraphQL) with state management
- Manage SEO, performance, static generation (SSG) and deployment
- Design a clear, fast and maintainable full-stack web application

## PREREQUISITES

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- Mastery of Vue.js (beginner to intermediate level)
- Solid foundation in JavaScript, HTML and CSS
- Completion of Vue.js training or initial experience in front-end development

*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

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Vue.js developers, advanced web integrators, full-stack developers, or individuals transitioning to modern web development.

## DETAILED PROGRAMME

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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 Nuxt.js

- Objectives, use cases and differences with Vue.js
- SSR, CSR and SSG modes: choosing the right rendering strategy
- Nuxt project architecture and conventions

### Module 2 – Pages, Layouts and Navigation

- Page creation, automatic routing and nested layouts
- Internal navigation and dynamic links
- Reusable layouts and meta tags per page

### Module 3 – Data Fetching and API Calls

- useFetch, asyncData and server-side data loading
- REST and GraphQL API integration
- Asynchronous data management and caching

### Module 4 – State Management and VueUse

- Centralised state management with Pinia
- Server-side business logic and shared state
- Composables from VueUse for productivity

### Module 5 – SEO and Performance

- Meta tags, Open Graph, sitemap and structured data
- Image optimisation, lazy loading and Core Web Vitals (LCP, CLS)
- Lighthouse audits and performance budgets

### Module 6 – Final Project: Full-Stack SSR Application

- Build a complete Nuxt application with SSR and dynamic routes
- Integrate authentication, API calls and SEO best practices
- Page transitions and progressive enhancement

## Module 7 – Deployment and Static Generation

- Static mode and Nuxt Content for content-driven sites
- Deployment on Netlify, Vercel and Node.js hosts
- Environment configuration and production hardening

## TEACHING METHODS

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### 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](mailto:contact@mfe-it.com).

## PRACTICAL INFORMATION

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### 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