



# MFE-IT

Reference: PH/EN/V3

## Vue.js 3 Training Course

Build High-Performance, Responsive Web Interfaces

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*Duration: 3 Days | Hours: 21 h*

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

## DESCRIPTION

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Vue.js is now one of the most powerful and accessible JavaScript frameworks for developing dynamic and modern user interfaces. This Vue.js 3 training course guides you through learning the latest version of Vue, with a project-oriented approach that allows you to create reusable components, a clear architecture and a complete web application step by step.

Throughout the training, you will master the Composition API, Vue Router, state management and the modern tooling ecosystem (Vite, Vue DevTools), and you will build a complete Single Page Application combining navigation, forms, API calls and user interactions.

## LEARNING OBJECTIVES

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

- Understand the fundamentals of Vue.js 3: components, directives, props, events
- Create a modular and maintainable application architecture
- Manage data state with the Composition API and Vue Router
- Integrate API calls and manage component lifecycle hooks
- Develop a complete SPA with navigation, forms and user interactions
- Use modern tools: Vue CLI, Vite, Vue DevTools and the Vue 3 ecosystem

## PREREQUISITES

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- Basic proficiency in JavaScript, HTML and CSS
- Experience in front-end or back-end development is desirable
- No prior knowledge of JS frameworks (React, Angular, etc.) required

*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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Front-end developers, full-stack developers, or individuals seeking a career change who wish to learn modern JavaScript through a leading framework.

## 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 Vue.js 3

- Vue.js in the JavaScript ecosystem and differences with other frameworks
- Installation with Vue CLI or Vite, project structure
- First component, template syntax and reactivity model

### Module 2 – Components and Template Syntax

- Components, props, events and component composition
- Directives: v-if, v-for, v-bind, v-model and event handling
- Debugging applications with Vue DevTools

### Module 3 – Composition API and Reactivity

- setup() function, ref, reactive and reactive primitives
- Lifecycle hooks, computed properties and watchers
- Composables and logic reuse across components

### Module 4 – Routing with Vue Router

- Navigation, dynamic routes and route parameters
- Nested routes and named views
- Lazy loading and code splitting per route

### Module 5 – Integration of External Services

- API calls with fetch or axios and asynchronous state management
- Error handling and loading states
- Form validation and user input management

### Module 6 – Final project: Complete SPA Application

- Design and development of a Single Page Application
- List of items, create / edit / delete operations and filters
- Navigation, state management and end-to-end integration

## 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