

Course : Vue.js, mastering the open-source JavaScript framework

Practical course - 3d - 21h00 - Ref. VJS

Price : 2160 CHF E.T.



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BEST

In just a few years, Vue.js has become one of the most popular front-end frameworks on Github. With this training course, you'll discover this library and its ecosystem, and learn the best practices of modern JS development.



Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Setting up development tools for Vue.js
- ✓ Key Vue.js concepts
- ✓ Structuring the source files of a Vue.js application
- ✓ Be able to develop a Single Page App with Vue.js
- ✓ Dialoging with a Back-End from a Vue.JS application
- ✓ SSR tools for Vue.js

Intended audience

Web developers, integrators, software architects.

Prerequisites

Good knowledge of HTML, mastery and practice of JavaScript (ES5 minimum).

Course schedule

1 The ecosystem of the modern JS developer

- ECMAScript 6: Javascript on the Web.
- What's new since ES6.
- Overview of TypeScript syntax.

Hands-on work

Make a small code example with async/await, import/export, const, let and arrow functions.

PARTICIPANTS

Web developers, integrators, software architects.

PREREQUISITES

Good knowledge of HTML, mastery and practice of JavaScript (ES5 minimum).

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

2 Using VueJS with Vite

- Setting up a project with Vite.
- The structure of an application.
- Create and manage a project with Vite.

Hands-on work

Create the Vue.js project that will serve as the basis for the rest of the course.

3 The components

- Components and Templating.
- Create your first component.
- Global styles.
- Local data.
- Event management.
- Properties and methods.
- Using Props.
- Using Slots.
- Component life cycle.

Hands-on work

Create project components and templating.

4 Divide your code into components

- Advantages of API composition.
- Create and use a component.
- Local state, reactive data.
- Composable functions.
- Picture transmission.

Hands-on work

Refactoring of application code: distribution into sub-components.

5 Managing navigation with Vue Router

- Installation of view-router.
- Create and display pages with view-router.
- Create and configure routes.
- Create nested routes.
- Create protected routes.
- 404 error handling.
- Transitions.

Hands-on work

Set up navigation with Vue router.

6 Managing APIs and Axios calls

- Setting up the API.
- List, read, add and update resources with Axios.
- Error handling.
- Using FetchAPI.

Hands-on work

Use of an API to an external server.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

7 Data management with Pinia

- Data and display synchronization.
- Using the Store.
- Pinia installation.
- Create and use a store with the API option.
- Using the pinia-persisted-state plugin.
- Use of group transitions.

Hands-on work

Optimize application architecture by converting to Pinia.

8 To find out more...

- Functional components.
- Customized guidelines.
- Environment variables with Vite.
- Front-End application deployment.
- Environment variables with NodeJS.
- Back-End deployment.
- Essential tools for developing mobile applications.
- Using Server-Side Rendering - SSR.
- Using Pre-Rendering.
- Introduction to NuxtJS/VitePress.

Hands-on work

Improve application code quality.

Dates and locations

REMOTE CLASS

2026 : 30 Mar., 24 June, 21 Sep., 14 Dec.