

# Front-end developer certification course

*Practical course - 16d - 112h00 - Ref. KPC*  
*Price : 6930 CHF E.T.*

This certification course will enable you to master all the steps required to build a front-end application. You'll learn the fundamentals of HTML5/CSS3 and Javascript, as well as the Angular and ReactJS frameworks.

## Teaching objectives

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

- ✓ Design and develop web applications in HTML5 and CSS3
- ✓ Master the syntax of the JavaScript language
- ✓ Manipulating the DOM structure of an HTML page
- ✓ Master the Angular and ReactJS frameworks

## Intended audience

Anyone wishing to develop a front-end application.

## Prerequisites

None.

## Certification

This certification course is validated by a written exam in the form of a case study (see Ref. KPZ).

### PARTICIPANTS

Anyone wishing to develop a front-end application.

### PREREQUISITES

None.

### 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.

### 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.

## Course contents

This course consists of the following modules :

### HTML5, introduction

Ref. TML - 1 day  4/5

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### HTML5 & CSS3, mastering Web page creation

Ref. HTM - 3 days  4/5

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### Javascript, Dynamic HTML

Ref. DHL - 4 days  4/5

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### AngularJS 2 : Mastering Google's front-end framework

Ref. AGU - 4 days  4/5

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### ReactJS: Mastering the Facebook JavaScript framework

Ref. TJS - 3 days  4/5

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### Front-end developer certification

Ref. KPZ - 1 day  5/5

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#### 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.

## Course schedule

### 1 HTML5, introduction

- Introduction to HTML.
- The structure of an HTML document.
- The HTML document header.
- The body of an HTML document.
- Tabular data display.
- The main form tags.
- Digital accessibility.

#### Hands-on work

HTML language implementation.

### 2 HTML5 & CSS3, mastering web page creation

- Introduction.
- New structuring.
- Simple forms.
- The new HTML tags.
- CSS3 selectors.
- Colors and text formatting.
- Box and background formatting.
- Grid Layout.
- Flexbox.
- Choosing a CSS framework.
- SVG, vector and responsive images.

#### Hands-on work

Discussions, experience sharing, demonstrations, tutorials and case studies.

### 3 JavaScript, dynamic HTML

- Web technologies.
- The JavaScript language.
- Events and data.
- HTML form management.
- Interaction with cascading style sheets.
- DOM XML manipulation.
- Ajax.

#### Hands-on work

JavaScript programming, DOM manipulation, interactivity management.

### 4 Angular, mastering Google's front-end framework

- JavaScript development: a reminder.
- Migrating from AngularJS 1.x to Angular.
- The ng or @angular/cli utility.
- Component definition.
- Classification of application components.
- Forms management, routing and http requests.
- Unit testing. Best practices and tools.

#### Hands-on work

Modular application composition with Angular.

### 5 ReactJS, mastering Facebook's JavaScript framework

- Overview of RIA components.
- Developing with ReactJS.
- Component interactivity.
- Single-page application with ReactJS and Flux or Redux.
- Isomorphic application.
- Introduction to React Native.

#### Hands-on work

You'll be building a complete application based on the ReactJS framework.

## Dates and locations

### REMOTE CLASS

2026 : 24 June, 7 Oct., 2 Dec.