

# Course : PHP 5: Web Development with Symfony 2

*Practical course - 3d - 21h00 - Ref. PYM*

*Price : 1830 € E.T.*

In this course, you'll learn how to develop PHP Web applications with the Symfony 2 framework. Among other things, you'll see how to install the framework, create forms and templates, organize your applications via an MVC architecture, work with persistent data, and make access secure.

## Intended audience

PHP developers and project managers.

## Prerequisites

Good knowledge of PHP. Basic knowledge of Object-Oriented Programming

## Course schedule

### 1 Overview of the Symfony 2 framework

- Object-oriented programming refreshers
- Global overview of Symfony 2.
- Main concepts, MVC architecture.
- Installing Symfony 2.
- Project architecture: Application, bundles, etc.
- Processing an HTTP query with Symfony 2.

#### Hands-on work

Examples with Symfony 2.

### 2 Starting with the Symfony 2 framework

- Configuring the application and overriding.
- Command line tools.
- Code debugging tools: Web Debug Toolbar, etc.
- Autoloading classes.

#### Hands-on work

Getting started in the environment. Description of the Web application that will serve as a red line.

## PARTICIPANTS

PHP developers and project managers.

## PREREQUISITES

Good knowledge of PHP. Basic knowledge of Object-Oriented Programming

## 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.

### 3 The “controller layer” and URL management

- Defining a “controller” and its “actions”.
- Mapping the controllers to the routing system.
- Accessing information from the http query.
- Redirecting to another page, displaying a 404 error page.
- Routing mechanism and URL management.
- Injecting dependencies and service containers.

#### Hands-on work

Setting up the application's controller. Handling query and session information. Implementing the redirect.

### 4 The “view layer” and the Twig template engine

- Using templates. Twig template engine.
- Inheriting templates. Inclusion in templates.
- Modular templates. Helpers.

#### Hands-on work

Creating and using templates. Setting up the application's View layer.

### 5 The Model layer

- Defining the model and database.
- Overview of Doctrine 2 (DBAL and ORM).
- Management of persistent objects.
- Object querying, accessors, relationships, and associations.
- Code reworking and business objects.

#### Hands-on work

Setting up the application's Model layer.

### 6 Forms and approving them

- Creating a simple form.
- Displaying a form in templates.
- Heightened security with tokens (SCRF).
- Approving forms.

#### Hands-on work

Creating forms Adding pages to the red line application. Setting up approval.

### 7 Going further with the Symfony 2 framework

- Security, access control, and authentication.
- Automated tests with PHPUnit.
- E-mail solution.
- Web services (SOAP and Rest).
- Adding new macros, Twig functions.

#### Hands-on work

Implementation and tests.

#### 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.

2026 : 8 June, 8 June, 7 Dec., 7 Dec.

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