

## Web Development with Symfony 7

**Duration** : 35 hours / 5 days

**Code** : SF7PACK

**Public** : PHP Développeur

**Prérequis** : Mastering PHP essentials

**Price**

2 490 € per person



Quality certification has been awarded for the following training category: training activities.

**Goals** : This intensive five-day training combines both the « SF7START / Getting Started with Symfony 7 » and « SF7ADVANCED / Advancing in Symfony 7 Development » courses and covers all the fundamental topics of Symfony 7. You'll start with the basics such as installing Symfony, navigating the directory structure, and generating your very first dynamic web pages with Twig. Then, you will dive more in-depth into more advanced topics and tools. Like forms and data validation, authentication and authorizations, dependency injection, automated testing, and HTTP caching. This training is delivered by our Symfony expert and contributor instructors, who enjoy sharing their experience, best practices as well as tips and tricks to help you be more efficient and autonomous with Symfony 7.

### Teaching and technical methods

---

Our curriculum is designed according to the following principles:

- Distribution of learning time between 40% theory and 60% practice.
- Practical application through exercises.
- Regular exchanges with the trainer and participants.

**Teaching materials:** the trainer will share the course materials. For remote sessions, the training courses will be recorded and the videos will be available on a revision platform for one month.

**Teaching materials:** provision of all collaborative materials.

**Technology:** For distance learning courses, a Google Meet link is used to display the training material and support practical exercises. If you are a learner with a disability, we are here to help you identify the most suitable adjustments to the teaching methods and materials or the relevant human assistance. For more information, please contact **our disability advisor:**

[laurent.vaquette@sensiolabs.com](mailto:laurent.vaquette@sensiolabs.com) / 01 86 65 72 25

**Assessment methods:** A multiple-choice test is conducted during and at the end of the training course.

This allows participants to validate their knowledge and revisit any points they have not fully understood.

A certificate of completion is issued to the learner.

A copy of the attendance sheet is sent to the sponsor.

## Teaching resources

---

SensioLabs has designed a unique Symfony training experience combining classroom learning and e-learning. In addition to the training, access to the SensioLabs University Platform is provided for one month. This access allows participants to continue reviewing concepts, track their progress, and stay in touch with the trainer.

## Registration procedures

---

Orders must be placed using the registration form on our website, by emailing Training [training@sensiolabs.com](mailto:training@sensiolabs.com) or by telephone. Registration will be finalised upon receipt of the signed quote and full payment or an agreement from an OPCO (joint commission for collective training) to cover the costs, before the start of the training course.

**Take a classroom-based or remote training course with Symfony-certified trainers and the SensioLabs University e-learning platform.**



A platform accessible  
at any time



Course materials that can  
be viewed and  
downloaded directly



Additional resources:  
exercises, videos, tests, etc.



Online chat with the  
trainer

## DAY 1

### PHP reminders for Symfony

#### OOP with PHP

- Object-oriented programming in PHP – A refresher on the basics
- Classes, interfaces, and inheritance in PHP
- Relationships between classes
- Error handling

## DAY 2

### Introduction to Symfony

- Overview of the Symfony project, including its licence, versions and release schedule
- Working environment and dedicated 'symfony' command line tool
- Creating a Symfony project
- Debugging Symfony: the Profiler and Toolbar

### Creating static pages

- How to manage the HTTP request-response flow
- Creating your first web page
- Routing in Symfony and creating static routes, controlling HTTP methods
- Best practices for your controllers and their capabilities
- Basic syntax and inheritance in Twig

### Managing your data with Doctrine

- Create and apply migrations to manage the state of your database
- Establish and manage relationships between two entities
- Store records in the database using a controller or a Doctrine fixture as part of automated testing.
- Retrieve records from the database using standard queries or Introduction to automated testing and functional testing

## Day 3

### Enhance your pages

- Additional routing: routing parameters, requirements, and default values
- Transmit and display variables in a Twig template
- Additional Twig syntax: control structures
- Functions and filters in Twig

### Manage your resources with AssetMapper

- The AssetMapper component, introduction
- Add external CSS using AssetMapper

### Managing user input

- Introduction to Symfony Form forms
- Creating your forms with custom configurations
- Extracting and managing data from your forms
- Setting up native constraints to validate user data

### Introduction to security

- Understanding security in Symfony applications
- Setting up simple authentication via a login form

## Day 4

### Obtaining data remotely

- Introduction to the HttpClient component
- Preparing requests using ScopedClients

### Organising your code

- Environments in Symfony
- Introduction to dependency injection and Symfony services
- Using the best way to determine available services
- Using autowiring to inject dependencies into a constructor, setter or attribute
- Completing a service using decoration

## Decouple your code

- Introduction to events and how to propagate them in a Symfony project
- Creating subscribers and listeners
- List of important events to be aware of in a Symfony application

## DAY 5


## Secure your application

- Introduction to authorisation in a Symfony project
- Checking your users' roles to give them access to certain application resources
- Creating custom voters to handle rare situations that require special checking in PHP

## Serializing your data

- Introduction to the Serializer component
- Serialization contexts and groups
- Normalizing complex data
- Creating a customized normalizer

# Online revision platform



**Daily test**

Question 1 / 20

Started 22 days ago

### VCS Files

Symfony > Components > Finder

By default, the Finder ignores popular VCS files, what is the method to use them ?

Choices

- ☐ `$finder->ignoreVCS(false);`
- ☐ `$finder->enableVCS();`
- ☐ `$finder->ignoreFiles(array('vcs' => false));`
- ☐ `$finder->enableVCSFiles();`
- ☐ `$finder->useTypes(array('vcs' => true));`

Submit answer

## DAILY TESTS

- Test yourself once a day with a 20-question multiple-choice quiz.
- Find a database of over 1,200 questions on PHP, object-oriented programming, Doctrine, Twig, and more.



## SKILLS MATRIX

- Track your level on each Symfony theme and component.
- Find the results of your skills on each test in matrix form.
- Visualise the areas in which you still need to improve.