



MFE-IT

Reference: FN/EN/S8

Symfony 8 Training Course

Develop Robust and Scalable PHP Web Applications

Duration: 4 Days | Hours: 28 h

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

DESCRIPTION

Symfony is the most widely used open-source PHP framework for large-scale projects. Thanks to its modular architecture, integrated best practices (MVC, dependency injection, routing, ORM) and active community, it has become essential for developing sustainable, secure and high-performance web applications.

This Symfony 8 training course teaches you how to master Symfony step by step, from installation to the creation of a complete web application: MVC structure, routing, templates, databases, security, forms, REST APIs and testing.

LEARNING OBJECTIVES

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

- Understand Symfony architecture and its HTTP lifecycle
- Structure an application following the MVC model
- Create routes, controllers and Twig views
- Manage databases with the Doctrine ORM
- Build secure forms and validate user data
- Integrate a REST API with Symfony and manage access (security.yaml)
- Implement best practices: services, dependency injection, debugging, testing

PREREQUISITES

- Solid foundation in object-oriented PHP
- Knowledge of HTML/CSS and web development logic
- Local environment installed (WAMP, XAMPP, Docker or equivalent)

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

PHP developers, freelancers, back-end engineers and individuals seeking a career change with a solid foundation in PHP.

DETAILED PROGRAMME

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 Symfony and Working Environment

- Installation via Composer and project structure
- Symfony Flex, recipes and bundles
- Debug toolbar, profiler and Webpack Encore

Module 2 – Routing, Controllers and Views

- Dynamic routing with attributes and YAML
- Controllers and HTTP request handling
- Twig templates: organisation, inheritance and global variables

Module 3 – Entities and Database with Doctrine

- Creating entities and database relationships
- Migrations and database versioning
- Custom queries, repositories and fixtures

Module 4 – Forms and Validation

- Form creation and form types
- Symfony validation constraints and CSRF protection
- Entity-bound forms and error handling

Module 5 – Security and Authentication

- Configuration of security.yaml and firewalls
- Authentication, user providers and role-based access
- Authenticators, voters and access control

Module 6 – REST API with Symfony

- API Platform vs manual API controllers
- JSON serialisation and content negotiation
- JWT authentication and API security

Module 7 – Services, Testing and Best Practices

- Dependency injection and the service container
- Unit and functional tests with PHPUnit
- Performance, caching and production deployment

TEACHING METHODS

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.

PRACTICAL INFORMATION

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