

**Advanced Symfony**

**Course Number:** SYM-102  
**Duration:** 2 days

**Overview**

This online or in-person Advanced Symfony training course teaches intermediate Symfony developers advanced skills such as integrating Symfony services, controlling and scripting Symfony from the command line, security, and building event-driven applications.

**Note:** This course is capped at 8 attendees, overriding Accelebrate’s standard 15-attendee cap.

**Prerequisites**

Students must have taken [Introduction to Symphony](file:////training/symfony-introduction) or have equivalent experience.

**Materials**

All Symfony training students receive comprehensive courseware.

**Software Needed on Each Student PC**

* Windows PCs or Macs with local administrator rights
* PHP 8 or later
* The following PHP extensions installed: ctype, filter, iconv, intl, json, mbstring, openssl, pdo, pdo\_sqlite, session, simplexml sodium, tokenizer, xml, xmlwriter, and xsl
* SQLite3, MariaDB, or MySQL
* Composer 2.x or later
* Symfony and Symfony CLI
* Npm or Yarn
* GitHub account for each participant, or a private repository + GIT account provided by your organization to our instructor
* Git

**Objectives**

* Understand dependency injection
* Use the service registry appropriately and effectively
* Build event-driven Symfony applications
* Configure authentication and authorization for Symfony applications
* Control and automate Symfony from the command line

**Outline**

* Introduction
* Services
  + Introduction to dependency injection and Symfony services
  + The best way to get the list of available services
  + Using auto-wiring to inject dependencies on a constructor, a setter, or a property
  + Checking the custom configuration of your services
  + Services and environment variables
* Console
  + Console commands: creating interactive commands and batch commands
  + Writing your own commands
  + Using helpers from SymfonyStyle to make life easier
  + Declaring and handling new options and arguments in your command
* Security
  + Introduction to Authentication and Authorization in a Symfony project
  + Creating your own authenticator with Security
  + Checking the users’ roles to let them access a given resource
  + Creating custom voters to handle rare situations requiring a PHP check
* Events
  + Introduction to events and how to dispatch them in a Symfony project
  + Creating subscribers to declare listeners
  + Important built-in events
* Conclusion