

# Course : Creating dynamic websites with PHP, certification

ENI certification - RS 6889

Practical course - 5d - 35h00 - Ref. PHC

Price : 3180 CHF E.T.

You will master the PHP language in the context of dynamic website development. You will also be able to tackle the related aspects of this type of development: databases, SQL language, etc.

## Teaching objectives

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

- ✓ Master PHP syntax and functionality to develop simple web pages
- ✓ Using object-oriented programming mechanisms in PHP
- ✓ Manipulate a relational database using the PDO API
- ✓ Processing Web forms
- ✓ Manage user sessions
- ✓ Handling files and directories

## Intended audience

Developers and Webmasters.

## Prerequisites

Basic knowledge of HTML and at least one programming language.

### PARTICIPANTS

Developers and Webmasters.

### PREREQUISITES

Basic knowledge of HTML and at least one programming language.

### 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.

## Certification

La certification ENI « Langage PHP : Développer des sites web » est inclus lors de l'inscription à la formation. Accessible en ligne 24h/24 ou en présentiel dans un centre partenaire, l'évaluation est chronométrée (1h30) et comprend des cas pratiques et un QCM/QCU. Les cas pratiques, reproduisant un environnement de travail réaliste, valent cinq fois plus qu'une question QCM/QCU. Le score sur 1000 détermine le niveau atteint : opérationnel (500 à 700 points) ou avancé (701 à 1000 points). La certification est obtenue dès 500 points et valide les compétences du candidat dans sa maîtrise du langage PHP. Les résultats sont disponibles immédiatement après l'épreuve, et le certificat est envoyé par e-mail. Cette certification, enregistrée sous le numéro RS6889 au Répertoire Spécifique de France Compétences. Lien vers la fiche France compétence : <https://www.francecompetences.fr/recherche/rs/6889/>

### 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](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.

## Practical details

### Hands-on work

Windows or Linux machines equipped with the Apache Web server with PHP module and a MySQL server will be made available. Participants will create the beginnings of an online sales site, including a product display page and a product administration page.

### Teaching methods

Active pedagogy based on examples, demonstrations, experience sharing, case studies and assessment of learning throughout the course.

## Course schedule

### 1 Introduction

- Client/server principle.
- What is PHP?
- PHP history.
- The differences between PHP 4, PHP 5 and PHP 8.
- Presentation of the common thread used during the course: the start of an online sales site.

## 2 PHP syntax

- First language elements.
- Integrating PHP into an HTML page.
- Inclusion and brief presentation of the Bootstrap CSS library.
- PHP configuration file.
- Variables and constants.
- Concatenation and string manipulation.
- Test the existence of a variable (isset()).
- Variable types and transtyping.
- Server variables.
- Regular expressions (preg\_match(), preg\_replace()).
- Terms and conditions.
- The expression match.
- Loops.
- Functions and anonymous functions.

### Hands-on work

Implementation of our red wire site: home page linked to the Bootstrap CSS library. Inclusion of a constants file and a functions file. First product displayed.

## 3 PHP tables

- Create and manipulate digital tables.
- Create and manipulate associative tables.
- 2-dimensional panels.
- Common array functions (array\_search(), array\_replace(), etc.).
- Array sorting (sort(), rsort(), asort(), arsort(), ksort(), krsort()).

### Hands-on work

Creation of a table of products, and display of these products on the home page.

## 4 Object-oriented programming with PHP

- Classes.
- Instantiation.
- Attributes.
- Accessors.
- Manufacturer.
- Methods.
- Exceptions (try, catch, throw, finally).
- Inheritance.
- Polymorphism.
- Abstract class.
- Interface.
- Namespaces (namespace, use).

### Hands-on work

Set up a class and a child class to model products. Practice of the various OOP topics covered. Update previous code to use these classes on the home page to display products.

## 5 Handling a database with PDO

- Review the fundamental concepts of relational databases: bases, tables, fields.
- Setting up a simple database.
- Introducing PDO.
- PDO database connection.
- Simple queries.
- Pre-compiled requests.
- `fetch()`, `fetchAll()` and `fetchObject()`.
- PDOExceptions.
- Transactions: `beginTransaction()`, `commit()`, `rollback()`.

### Hands-on work

Create a simple database with products, categories and user accounts. Use PDO to display products in the database.

## 6 Forms

- Setting up a form.
- Precise sending URL.
- GET data transmission.
- POST data transmission.
- Error testing: required fields and formats (regular expressions).
- Redirections.

## 7 Sessions

- Introduction to sessions.
- `session_start()`.
- Table `$_SESSION`.
- Delete a session.
- Displays and redirects according to session data.

### Hands-on work

Set up a session for the logged-in user, along with a logout button. Creation of an administration page with restricted access, initially empty. Set up a menu with a conditionally displayed administration button. If time permits, set up a shopping cart listing products in session.

## 8 Files

- File system manipulation: `chown()`, `chmod()`, `copy()`, `delete()`, `rename()`, `mkdir()`, `rmdir()`.
- Create files: `fopen()`, `fread()`, `fwrite()`, `fclose()` `file_get_contents()` and `file_put_contents()`.
- Retrieve and format dates: `date()` and `strftime()`.
- Set up a form with file upload (enctype attribute, input file).
- Retrieving and using the `$_FILES` array.
- Set limits on sending size and file type.
- Tests the existence of files on the server with `file_exists()`.
- Move uploaded files with `move_uploaded_file()`.

### Hands-on work

Implementation of a logging system that lists users who have logged on in a file. Creation of a product administration page, including a form for adding a product, as well as a table listing the products in the database, and allowing them to be deleted.

## 9 Preparation for certification

- Terms and conditions.
- Training quiz.
- Add features to the site as time permits.

## Dates and locations

### REMOTE CLASS

2026 : 8 June, 28 Sep., 7 Dec.