

# PHP MySQL – Advanced

## Description

Mastering the PHP and MySQL combination has become essential for developers aiming to design robust web applications. This PHP MySQL training is intended for professionals who want to go further and take full advantage of the possibilities offered by these technologies. It covers in depth object-oriented programming, security, database optimization, and the integration of external libraries.

## An advanced learning path to enhance your skills

This PHP MySQL training goes beyond simple coding. It also provides a comprehensive approach to software architecture, modularity, and advanced database management. Participants will learn how to handle sessions, cookies, and complex SQL queries. They will also discover how to leverage PEAR modules, work with XML, and generate PDF files or graphics using GD.

### Course Content

#### Module 1: Basic Object-Oriented PHP

- OOP concepts in detail
- Typing properties and methods and their visibility

#### Module 2: Advanced PHP OOP

- Encapsulation
- Inheritance
- Method overriding
- Blocking inheritance

#### Module 3: PHP Forms

- Form handling
- Interactive PHP forms
- Form validation
- PHP form sanitization

#### Module 4: PHP Query String, Cookies, and Sessions

- Creating a Query String
- PHP cookie management
- PHP session management
- PHP login session
- Assignment login/logout system
- Request form and sending mail via PHP script
- Files and directories
- Working with files and directories

#### Module 5: MySQL Joins and SQL Functions

- Creating an index
- MySQL INNER Join
- MySQL LEFT Join
- MySQL RIGHT Join
- Complex SQL queries

## **Module 6: PEAR**

- Installing and working with PEAR packages

## **Module 7: Date and Time**

- Working with date and time functions

## **Module 8: GD and PDF Library**

- Working with GD and PDF Library

## **Module 9: Reg Exp**

- String matching with regular expressions

## **Module 10: XML**

- Working with PHP + XML

## **Module 11: HTTP Handling**

- HTTP headers
- Page redirection
- File download

## **Module 12: PDO**

- Connecting to a database with PHP Data Object

## **Module 13: Smarty**

- Smarty installation
- Working with Smarty variables and objects
- Creating Smarty templates

## **Lab / Exercises**

- During the course participants are encouraged to actively participate in the learning experience by running example files during lectures and performing coding challenges during labs
- Each lab session allows you to compare your solution to the instructor's

## **Documentation**

- Digital courseware included

## **Participant profiles**

- Experienced developers who need to use PHP at a professional level

## Prerequisites

- Having followed or have knowledge covered by: [PHP MySQL - Fundamentals](#), [HTML Professional](#), [Introduction to SQL Database](#)

## Objectives

- Use advanced PHP techniques
- Create a modularized and well-documented web site
- Use advanced database concepts
- Use PHP Security techniques
- Develop object-oriented PHP applications
- Do networking with PHP
- Take advantage of PEAR modules
- Work with XML in PHP

## Description

PHP MySQL - Advanced Training

### Niveau

Avancé

### Classroom Registration Price (CHF)

3800

### Virtual Classroom Registration Price (CHF)

3550

### Duration (in Days)

5

### Reference

PHP-02