

# PHP 5, Advanced Programming

Hands-on course of 3 days - 21h

Ref.: PHA - Price 2025: 2 120 (excl. taxes)

An introduction centred on OOP will provide you with an MVC approach for on-line applications. The presentation of components in a framework and communication with external processes will make you understand the strategic issues related to a more logical approach to developing Internet applications, of which Web sites are only one aspect. Exposure to the new prospects offered by Web 2.0 is also covered through an introduction to the AJAX standard, and by using rich clients communicating in XML flows with the server.

## THE PROGRAMME

last updated: 05/2024

### 1) Object-Oriented Programming (OOP)

- Classes, properties, methods. UML approach.
- Inheritance and aggregation. Polymorphism.
- Interfacing, overloading. Practical application.

*Hands-on work* : Implementing n-tier MVC architecture. Defining a DAO interface and implementing DAO classes.

### 2) Handling errors

- Creating a handler. Buffering and log files.

*Hands-on work* : Creating an advanced error handling class, a buffered display and a log file.

### 3) E-mail

- MIME. Mixed, Multipart, Alternative/Related.
- IMAP/POP. Connecting to the server. Analysing and processing messages.

*Hands-on work* : Creating an xMail class function.

### 4) LDAP authentication

- Introduction. OpenLDAP. Configuration and start-up.
- Reading. Anonymous connection, interrogating and retrieving data. Writing. Administrator connection.

*Hands-on work* : Implementing an authentication class.

### 5) Databases

- Connection. Simple, multiple, permanent.
- Analysing the request. Validation mode and errors.
- Commit/Rollback. Connection mode incidence.
- Retrieving sets of records. Stored procedures.

*Hands-on work* : Implementation in the DAO class.

### 6) XML and Web Services

- XML. Format and validation. DOM and Xpath.
- XSL transformers. XSL/XSLT.
- Rich clients: SWF and Ajax. Introduction and issues.

#### PREREQUISITES

Goods knowledges of PHP 5 language in Web's context.

#### 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.

#### 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 to review your request and its feasibility.

- Web Services and SOAP: Introduction. Directory of services and accessibility. WSDL and SOAP.

*Hands-on work* : *Creating an RSS flow. Presentation of Ajax RSS readers. Creating a Web Service.*

#### 7) PDF for AcrobatReader

- Basic operations. Text, images and vector traces.

- Advanced options. Hyperlinks, signets and notes.

*Hands-on work* : *Implementing a PDF class.*

#### 8) Interprocess communication

- COM and RPC APIs. Opening, executing and controlling an external application. Sockets.

- Printer control. Standard parameter setting.

*Hands-on work* : *Exporting data towards a spreadsheet. Implementing a method of direct access to an SMTP server.*

#### 9) HTTPS, SSL and certificates

- Introduction. Secured transactions. Server parameters. Certificate suppliers.

#### 10) Maintenance

- Data compression. Reading/writing in streaming.

- FTP. Protocol and connection. Basic operations.

*Hands-on work* : *Site maintenance. Compressing and transferring archives.*

## DATES

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#### REMOTE CLASS

2025 : 10 sept., 17 déc.