

Hands-on course , 3  
day(s)  
Ref : PHA

### Pre-requisites

Good knowledge of PHP 5  
language in Web's context.

### Next sessions

# PHP 5, Advanced Programming OOP and advanced functions

## OBJECTIVES

*Object Programming will provide you with an MVC approach for on-line applications. You will learn to use components in a framework and to implement communication with external processes. Exposure to the new prospects offered by Web 2.0 is also covered.*

### [1\) Object-Oriented Programming \(OOP\)](#)

#### [2\) Handling errors](#)

#### [3\) E-mail](#)

#### [4\) LDAP authentication](#)

#### [5\) Databases](#)

### [6\) XML and Web Services](#)

#### [7\) PDF for AcrobatReader](#)

#### [8\) Interprocess communication](#)

#### [9\) HTTPS, SSL and certificates](#)

#### [10\) Maintenance](#)

## 1) Object-Oriented Programming (OOP)

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

### Workshop

*Implementing n-tier MVC architecture. Defining a DAO interface and implementing DAO classes.*

## 2) Handling errors

- Creating a handler. Buffering and log files.

### Workshop

*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.

### Workshop

*Creating an xMail class function.*

## 4) LDAP authentication

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

### Workshop

*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.

### Workshop

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

### Workshop

*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.

### Workshop

*Implementing a PDF class.*

## 8) Interprocess communication

- COM and RPC APIs. Opening, executing and controlling an external application. Sockets.
- Printer control. Standard parameter setting.

### **Workshop**

*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.

### **Workshop**

*Site maintenance. Compressing and transferring archives.*