Course Code:	PHP-DMV-003
Course Title:	Advanced PHP
Duration	2 Days

Training Objectives

- Learn how to program in Object-Oriented PHP
- Learn to process XML with PHP
- Learn to work with the PEAR HTTP_REQUEST Module
- Learn to work with XML RPC and PHP
- Learn to create PHP Web Services
- Learn to work with Smarty Templates to speed up PHP development

Hands-on/Lecture Ratio

This advanced php training class is 70% hands-on, 30% lecture, with the longest lecture segments lasting for 10 minutes. Students "learn by doing," with immediate opportunities to apply the material they learn to real-world problems.

PHP Training Materials

All attendees receive comprehensive courseware and a copy of O'Reilly's *PHP Cookbook*.

Software Needed on Each Student PC

The following should be installed on each student PC:

- Microsoft Windows XP / Microsoft Windows Vista / Microsoft Windows 7
- Internet Explorer 6 or later or Firefox 2 or later, Google Chrome or Opera.
- Adobe Dreamweaver CS 5 or earlier

Note: WAMP, available at http://www.wampserver.com/en/download.php provides a single installer with everything you need for the class Windows. Students will install wamp as part of the hands-on "learn by doing" activities.

Training Outline

- Object-Oriented PHP
  - Building a Class
  - Working with Properties and Functions
  - Private, Protected, Public modifiers
  - Inheritance
  - Interfaces
  - Building a Web Page Object
  - PHP Objects in N-Tier Web Architecture

- o Importance of PHP Business Objects
- PHP XML Support
  - o Simple XML Object
  - o Executing XPath Queries
  - o DOM Interoperability
  - o Using XPath
  - o Installing and Configuring LIBXSL
  - o Applying Server side XSL Transformations
  - o Using XML in N-Tier Architecture
  - o Mixing PHP Objects and XML
- PEAR: HTTP_REQUEST MODULE
  - o Installing PEAR::HTTP_REQUEST with Dependencies
  - o HTTP_REQUEST Capability
  - o HTTP GET Request
  - o HTTP POST Request
  - o Programmatically Posting to a HTML Form
  - o Parsing the Response
  - o Building a Basic Authentication PHP Client
- XML RPC
  - o XML-RPC Implementations
  - o Installing and Configuring PHPXMLRPC
  - o XML RPC Data-Types
  - o XML RPC Server
  - o XML RPC Client
  - o XML RPC Request and Response
  - o Exploring the XML RPC API
- PHP Web Services
  - o Web Service Technology Stack
  - o SOAP Soup
  - o Web Services with PHP
  - o Installing NuSOAP
  - o Building a SOAP SERVER
  - o Consuming a Web Service
  - o Generating WSDL Dynamically
  - o Understanding Generated WSDL
  - o WSDL and SOAP Proxies
- Complex PHP Web Services
  - o Building Interoperable Web Services
  - o Generating and Handling SOAP Faults
  - o RPC Vs. Document Message Encoding
  - o Serializing the SOAP Envelope
  - o Web Service Best Practices
- Ajax with PHP
  - o Ajax Overview
  - o Ajax Technology Stack
  - o Ajax Implementations
  - o Installing and configuring HTML_Ajax Pear Module
  - o Ajax Server
  - o Ajax Client
- Smarty Templates
  - o Smarty Overview

- o Installing and configuring Smarty Pear Module
- o Setting up a Template
- o Passing Data to the Template
- o Smarty for Template Designers
- o Smarty for Programmers
- o Smarty in N-Tier Architecture
- Conclusion

Lunch Break

Jellof/Fried Rice, Pasta/Spaghetti Bolognias, Seasoned Chicken In sauce, Fried Fish in Tomato Sauce, Pounded Yam/Semovita/Garri, Efo Riro/Egusi/Afan, Plantain, Vegetable Salad.