

PHP500 : PHP Zend Framework Programming

Code : PHP500 **Duration :** 4 days **Category :** PHP

Audience :

Experienced PHP developers who want to learn the capabilities of the Zend Framework.

Prerequisites :

Extensive knowledge and experience with PHP development including object oriented programming is required.

Realization :

The concepts are treated on the basis of presentation slides and demos. The theory is interspersed with exercises. A modern PHP IDE is used for the demos and exercises. The focus is on Zend Framework version 2.



PHP Zend Framework Programming



Contents :

The Zend Framework is an open source PHP class library focusing on simplifying complex PHP applications through the use of standard components. The course starts with an overview of the development of PHP applications based on the Zend Framework and discusses the architecture of the Zend Framework. The focus is on Zend Framework version 2, but the differences with version 1 are also discussed. The next subject is the Model View Controller (MVC) design pattern that is a central element for PHP applications based on the Zend Framework. Attention is paid to the function of the Controller component for the routing of requests and the control flow. This will also include input validation, authentication, authorization and security best practices. Furthermore, the function of the Model component is discussed, with attention being paid to accessing databases, caching of data and sending mail. Also the function of the View component is discussed and this includes the addressing of Rich User Interfaces and Ajax functionality. Finally the subjects internationalization and Web Services are on the course schedule. The topics covered in the course are also the exam subjects for the Zend Framework Certification exam. The course is not a direct exam preparation training, but a training to learn how to use the Zend Framework in PHP Development.

Module 1 : ZF Intro

- What is Zend Framework?
- Zend Framework Goals
- Why use Zend Framework?
- What is Zend Framework made of?
- Components Zend Framework
- Zend Framework Architecture
- Zend Framework Community
- Requirements for Zend Framework
- Zend-Tool
- Project File
- Project Structure
- Deployment in Virtual Host
- Front Controller
- Rewrite Module
- Zend Framework Control Flo

Module 2 : ZF MVC

- What is MVC?
- Classic MVC Pattern
- Front Controller Design Pattern
- Zend_Controller_Front
- Request Routing
- Default Page
- Class Mapping
- Action Controllers
- Controller Actions
- Modules
- Zend_View
- ViewRenderer
- Autoloading
- Rendered View
- Error Controller

Module 3 : ZF Controller

- Zend_Controller Components
- Request Object
- Request Handling Workflow
- Request Object Operations
- Request Type Checkers
- Zend_Controller_Front
- Dispatch Loop
- Front Controller Parameters
- Base Url
- Standard Router
- Using Rewrite Router
- Shipped Routes
- Dispatcher
- Using_forward
- Action Helpers
- Plugins
- View Scripts

Module 4 : ZF Form

- Zend_Form
- Creating Forms
- Zend_Form Elements
- Standard Elements
- Using Zend_Form
- Component Overview
- Base Classes
- Plugins
- Utilities
- Filters
- Validators
- Decorators
- Decorating Process
- Display Groups
- Sub Forms

Module 5 : ZF Layout

- What are Layouts?
- Typical Layout
- Two Step View Pattern
- Zend Framework Solution
- Simple Layout template
- Zend_Layout
- Changing Layouts
- Partials
- Partials Parameters
- Partials and PartialLoop
- Partial Example
- Place Holders
- Special Placeholders
- PartialLoop Model
- Action View Helper

Module 6 : ZF Database Access

- Zend_DB
- Connecting to a database
- Running an SQL Query
- Fetching Results
- Changing the Fetch Mode
- Other Fetching Types
- Inserting Data
- Updating Data
- Deleting Data
- Quoting
- Retrieving Metadata
- Prepared Statements
- Zend_DB_Select
- Table and Row OO patterns
- Zend_Db in MVC

Module 7 : ZF Authentication

- Security Concerns
- Authenticating with Zend_Auth
- Zend_Auth Adapters
- Authenticating Results
- Using Zend_Auth_Result
- Persisting Identities
- Customized Storage
- Authenticating Methods
- Indirect Adapter Usage
- Direct Adapter Usage
- Database Table Authentication
- Zend_Auth Adapter_DbTable
- Digest Authentication
- HTTP Basic Authentication
- HTTP Digest Authentication
- HTTP Authentication Adapter
- LDAP Adapter

Module 8 : ZF Authorization

- Zend_ACL
- Access Control Lists
- Roles and Resources
- ACL Resource Interface
- Resource Hierarchy
- Inheritance between Resources
- Role Organization
- Ambiguity Resolution
- Privileges
- Removing Rules
- Assertion Support
- Dirty IP Assertion
- ACL's and MVC

Module 9 : ZF Components

- ZF Component Dependencies
- Zend Core and Components
- Why ZF Components
- Zend_Paginator
- Zend_Config_Ini
- Zend_Registry
- Zend_Pdf
- Zend Mail
- Zend_Log
- Zend_Locale

Module 10 : ZF Web Services

What is a Web Service?

Kinds of Web Services

ZF Soap Services

Zend_Soap Server

Zend_Soap Client

XML-RPC

XML-RPC in ZF

JSON-RPC

JSON-RPC in ZF

REST

REST in ZF

Zend_Rest Server

Zend_Rest Client