

# ONLINE TRAINING COURSES FROM PHP|ARCHITECT

## Zend PHP Essentials

Our introductory PHP course, *Zend PHP Essentials*, was developed for us and Zend Technologies by PHP expert Chris Shiflett, co-founder of the PHP Security Consortium. This **19-hour course** provides a thorough introduction to PHP development, with particular care to "doing things right" by covering **security, performance** and the best development techniques. Rather than cramming as much theory as possible, PHP Essentials provides a thoroughly practical approach to learning PHP—thus ensuring that each student will be able to write good PHP code in a **real-world setting** by the end of the course.

## Zend PHP Certification Training

If you want to become a Zend Certified Engineer, this course is the best preparation tool that you'll ever find! Designed by some of the same Subject Matter Experts who also helped write the exam itself, this course covers every single topic that is part of the exam. The *Zend PHP Certification Training* (course) provides a complete overview of the exam, and doubles as an excellent refresher course in PHP for any developer.

## Zend Professional PHP Development

This is our advanced course for the professional PHP developer. This course picks up from where *PHP Essentials* ends and provides a thorough, in-depth analysis of advanced features found in both PHP 4 and PHP 5, including object-oriented programming and design patterns, XML development, regular expressions, encryption, e-mail manipulation, performance management and advanced databases.

Course	Description	Start Dates	Duration	Tutoring	Prerequisites	Cost
<b>Zend PHP Essentials</b>	<ul style="list-style-type: none"> <li>Covers PHP 4 and PHP 5</li> <li>Provides a thorough practical introduction to PHP</li> <li>Covers security and performance</li> </ul>	<ul style="list-style-type: none"> <li><b>July 12</b></li> <li><b>August 8</b></li> <li><b>September 5</b></li> </ul>	7 Sessions 19 Hours 3 Weeks	YES	-	<b>\$769.99 US</b> (\$999.99 CAD)
<b>Zend PHP Certification Training</b>	<ul style="list-style-type: none"> <li>Covers every topic in the exam</li> <li>Provides an excellent refresher course for PHP at all levels</li> </ul>	<ul style="list-style-type: none"> <li><b>July 6,</b></li> <li><b>August 1</b></li> <li><b>September 1</b></li> </ul>	7 Sessions 19 Hours 3 Weeks	YES	<b>Zend PHP Essentials</b>	<b>\$644.99 US</b> (\$838.99 CAD)
<b>Zend Professional PHP Development</b>	<ul style="list-style-type: none"> <li>Covers advanced PHP 4 and PHP 5 topics</li> <li>Perfect for going "beyond the basics" and learning the true power of PHP</li> </ul>	<ul style="list-style-type: none"> <li><b>July 7,</b></li> <li><b>August 11</b></li> <li><b>September 6</b></li> </ul>	7 Sessions 19 Hours 3 Weeks	YES	<b>Zend PHP Essentials</b>	<b>\$769.99 US</b> (\$999.99 CAD)

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# PHP Essentials

<b>Course Description</b>	<i>PHP Essentials</i> is a complete introductory course to the PHP language. It includes coverage of all areas for both version 4 and version 5 of the language and provides the student with the necessary tools to write scripts that are secure, efficient and reliable.
<b>Target Population</b>	<ul style="list-style-type: none"> <li>• <b>Developers who are switching to PHP from another web language</b></li> <li>• <b>Web developers who want to learn PHP</b></li> <li>• <b>Developers who are familiar with PHP and want to improve and solidify their knowledge</b></li> </ul>
<b>Pre-requisites</b>	None
<b>Course Objectives</b>	<p>Upon completion of the course, participants will be able to:</p> <ul style="list-style-type: none"> <li>• <b>Read and understand PHP code</b></li> <li>• <b>Write procedural PHP code</b></li> <li>• <b>Write Object-oriented code</b></li> <li>• <b>Interact with the Web</b></li> <li>• <b>Understand and manipulate data</b></li> <li>• <b>Understand and use the language's APIs</b></li> </ul>
<b>Course Topics</b>	<ul style="list-style-type: none"> <li>• <b>Language Essentials</b> <ul style="list-style-type: none"> <li>- Scripts</li> <li>- Variables</li> <li>- Operators</li> <li>- Control Structures</li> <li>- Forms</li> </ul> </li> <li>• <b>Strings</b> <ul style="list-style-type: none"> <li>- Quoting Styles</li> <li>- Comparing</li> <li>- Matching</li> <li>- Formatting</li> <li>- Parsing</li> </ul> </li> <li>• <b>Files</b> <ul style="list-style-type: none"> <li>- Reading from files</li> <li>- Writing to files</li> <li>- PHP 5 magic</li> <li>- Streams</li> </ul> </li> <li>• <b>Functions</b> <ul style="list-style-type: none"> <li>- Creating and Using Functions</li> </ul> </li> <li>• <b>File Inclusion</b></li> <li>• <b>Object-oriented Programming</b> <ul style="list-style-type: none"> <li>- PHP 4</li> <li>- PHP 5</li> </ul> </li> <li>• <b>Database Programming</b> <ul style="list-style-type: none"> <li>- The SQL language</li> <li>- Database design</li> <li>- Using MySQL</li> <li>- Using SQLite</li> </ul> </li> <li>• <b>Arrays</b> <ul style="list-style-type: none"> <li>- Using arrays</li> <li>- Manipulating arrays</li> </ul> </li> <li>• <b>Sessions</b> <ul style="list-style-type: none"> <li>- HTTP and statelessness</li> <li>- Cookies and state</li> <li>- PHP sessions</li> </ul> </li> </ul>
<b>Course Duration</b>	19 hours

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# Professional PHP Development

<b>Course Description</b>	<i>Professional PHP Development</i> delivers a thorough	
<b>Target Population</b>	<ul style="list-style-type: none"> <li>• Developers who have successfully completed the PHP Essentials course and want to deepen their knowledge of PHP with the study of advanced topics.</li> </ul>	
<b>Pre-requisites</b>	Successful completion of PHP Essentials	
<b>Course Objectives</b>	<p>Upon completion of the course, participants will be able to:</p> <ul style="list-style-type: none"> <li>• Understand and implement complex object-oriented code</li> <li>• Understand and utilize PHP's XML-manipulation APIs</li> <li>• Implement complex and advanced regular expressions</li> <li>• Manipulate (send and receive) complex e-mail using PHP</li> <li>• Use PHP to encrypt and decrypt data</li> <li>• Perform advanced database operations</li> <li>• Write scripts ready for internationalization</li> <li>• Use and develop templating systems</li> <li>• Improve the performance of PHP scripts</li> <li>• Understand script security and write safe and secure code</li> </ul>	
<b>Course Topics</b>	<ul style="list-style-type: none"> <li>• <b>Objects</b> <ul style="list-style-type: none"> <li>- Objects in PHP 5</li> <li>- Extending objects</li> <li>- Cloning and referencing</li> <li>- Interfaces</li> <li>- Practical applications</li> <li>- Serialization</li> </ul> </li> <li>• <b>XML</b> <ul style="list-style-type: none"> <li>- SAX</li> <li>- DOM</li> <li>- Simple XML</li> <li>- XML parsers</li> <li>- Callbacks</li> <li>- Error Handling</li> </ul> </li> <li>• <b>Regular expressions</b> <ul style="list-style-type: none"> <li>- POSIX vs PCRE</li> <li>- Meta characters</li> <li>- Quantifiers</li> <li>- Escape sequences</li> <li>- References and backreferences</li> <li>- Optimizations</li> <li>- Named patterns</li> <li>- Lookarounds, lookaheads and lookbehinds</li> </ul> </li> <li>• <b>PHP &amp; E-mail</b> <ul style="list-style-type: none"> <li>- E-mail processing</li> <li>- PHP and sendmail</li> <li>- Sender identity</li> <li>- E-mail on Windows</li> <li>- Sending and delivering e-mail</li> <li>- SMTP communication</li> <li>- Headers</li> <li>- MIME and HTML mail</li> <li>- Attachments</li> </ul> </li> <li>• <b>Encryption</b> <ul style="list-style-type: none"> <li>- One-way encryption and digesting</li> <li>- Symmetric encryption</li> <li>- Encrypted data storage</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Data encoding</li> <li>• <b>Advanced database programming</b> <ul style="list-style-type: none"> <li>- Advanced MySQL</li> <li>- Chained queries/Sub-queries/Unions</li> <li>- Improving query performance</li> <li>- Using prepared statements</li> <li>- Troubleshooting database problems</li> </ul> </li> <li>• <b>Performance management</b> <ul style="list-style-type: none"> <li>- Compiler caching</li> <li>- Compiler optimizations</li> <li>- Apache/PHP integration</li> <li>- Web server performance improvements</li> <li>- Output buffering</li> <li>- Network buffering</li> <li>- Content compression and reduction</li> <li>- Profiling and benchmarking</li> </ul> </li> <li>• <b>Templating &amp; Internationalization</b> <ul style="list-style-type: none"> <li>- Anatomy of a templating system</li> <li>- Character sets</li> <li>- Assembling templates</li> <li>- Character normalization</li> <li>- Smarty</li> </ul> </li> <li>• <b>Security</b> <ul style="list-style-type: none"> <li>- Understanding &amp; Implementing security</li> <li>- Input validation</li> <li>- Securing data</li> <li>- SSL/TLS</li> <li>- Register globals</li> <li>- String and path validation</li> <li>- Magic quotes</li> <li>- XSS</li> <li>- SQL Injection</li> <li>- Escaping</li> <li>- Error reporting</li> <li>- File security</li> <li>- Session security</li> <li>- Security through obscurity</li> </ul> </li> </ul>
<b>Course Duration</b>	19 hours	

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# Zend PHP Certification Training

<b>Course Description</b>	This class prepares the students for the Zend PHP Certification exam by covering all the topics that are covered by the test. Whereas the other courses are designed to provide as much breadth as possible, this course was designed with the specific intent of providing the best preparation possible for the exam.
<b>Target Population</b>	<ul style="list-style-type: none"> <li>• <b>Developers who intend to take the Zend PHP Certification exam</b></li> </ul>
<b>Pre-requisites</b>	Successful completion of PHP Essentials
<b>Course Objectives</b>	<p>Upon completion of the course, participants will be able to:</p> <ul style="list-style-type: none"> <li>• <b>Have the knowledge required to satisfy the Zend PHP Certification exam curriculum</b></li> </ul>
<b>Course Topics</b>	<ul style="list-style-type: none"> <li>• <b>The PHP Language</b></li> <li>• <b>User input processing</b></li> <li>• <b>Time and Date management</b></li> <li>• <b>String manipulation</b></li> <li>• <b>Array manipulation</b></li> <li>• <b>File operations</b></li> <li>• <b>E-mail manipulation</b></li> <li>• <b>Databases</b></li> <li>• <b>Network programming</b></li> <li>• <b>Security</b></li> <li>• <b>Optimization</b></li> <li>• <b>Debugging</b></li> </ul>
<b>Course Duration</b>	19 hours

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