

Course Name : FAST TRACK: ZEND PHP BASICS TO ADVANCED
Duration : 4 Days (Physical Classroom / Virtual Live Instructor)
Skill Level : Beginners

COURSE DESCRIPTION:

The "Official PHP Basics to Advanced Course" is tailored for individuals seeking to learn the PHP language from its fundamentals to advanced levels, covering versions PHP 5 to the latest version. Our PHP Certified Trainer will commence the course by providing a comprehensive introduction to PHP basics, utilizing a hands-on, experiential approach that is rich in examples and practical exercises. As learners become more confident with the core language concepts, the course will delve into advanced topics such as Object Oriented Programming (OOP), PHP Data Objects (PDO), Web Services, and Web Security.

This course takes full advantage of the new features and constructs offered in the latest PHP version, leveraging a hands-on, practical approach that includes a variety of examples and exercises to maximize learning outcomes.

WHAT WILL YOU LEARN?

- Fundamentals of PHP language: the course will cover the basics of PHP and help you get started with the language.
- Core language concepts: the course will help you gain a thorough understanding of the core concepts of PHP, including data types, variables, arrays, functions, and more.
- Object Oriented Programming (OOP): you will learn the principles of OOP and how to implement them in PHP.
- PHP Data Objects (PDO): you will learn how to use the PDO extension to connect to databases and execute queries.
- Web Services: the course will cover how to create and consume web services in PHP.
- Web Security: you will learn about the different security considerations for PHP-based web applications and how to implement security measures to protect your applications.

Throughout the course, you will be guided by a PHP Certified Trainer and will engage in hands-on exercises and examples to enhance your practical understanding of the language.

PREREQUISITE:

Beginners. No programming knowledge is required.

METHODOLOGY:

This program will be conducted with interactive lectures, PowerPoint presentations, discussions, and practical exercises. This course can be conducted as instructor-led (ILT) or virtual instructor-led training (VILT).

JOB SCOPE:

Upon completion of this course, candidates may pursue the following career paths:

- Web Developer (PHP & Laravel)
- Backend Developer
- Full Stack Developer
- PHP Developer
- Software Developer

DAY 1

MODULE 1: INTRODUCTION

- Welcome
- What do you need to know?
- Setup the development environment

MODULE 2: PHP LANGUAGE BASICS

- PHP Language Basics
- Syntax & Quotes
- Comments
- Special Characters
- Data Types & Precedence
- Symbols
- Variables & Constants
- Arrays
- Operators & Conditionals

MODULE 3: PHP FUNCTIONS & FILE HANDLING

- Functions
- Function Design Tools
- File System (Handling)
- Commonly Used file Functions
- File System Performance

DAY 2

MODULE 4: PHP WEB CONCEPTS

- Client/server Communications
- How to Embed PHP into HTML
- How to Embed HTML into PHP
- Cookies & Sessions
- \$_GET and \$_POST

MODULE 5: PROJECT 1

- Coding an Order Inquiry Application

MODULE 6: ADVANCED WEB CONCEPTS

- Server Communication
- HTTP Headers
- Output Buffering
- Browser Caching
- Cookies
- Sessions
- Email
- Forms

DAY 3

MODULE 7: OBJECT-ORIENTED PROGRAMMING

- Classes
- Static Context
- Visibility (PPP)
- Overriding Functions
- Interfaces
- Cloning
- Namespaces

MODULE 8: ADVANCED DATABASE HANDLING

- Relational Databases
- SQL and MySQL
- Connecting PHP and MySQL
- PDO
- Stored Procedures
- Transactions

DAY 4

MODULE 9: CRITICAL ASPECTS OF BUILDING PHP APPLICATIONS

- Testing and Debugging
- Troubleshooting Procedures: Development
- phpDocumentor, PHPDoc
- Exceptions
- Web Services
- Performance Enhancements
- Security and Validation

MODULE 10: PROJECT 2

- Coding an E-Commerce Application

CONCLUSION

- QA
- Useful References and Books
- Feedback