

Comprehensive & Immersive PHP

Length: 5 Days

Summary: This hands-on PHP Programming course provides the knowledge necessary to design and develop dynamic, database-driven Web pages using PHP. PHP is a language written for the Web, quick to learn, easy to deploy and provides substantial functionality required for e-commerce. This PHP training course introduces the PHP framework and syntax and covers in depth the most important techniques used to build dynamic Web sites. Students learn how to connect to any modern database and perform hands on practice with a MySQL database to create database-driven HTML forms and reports.

E-commerce skills including user authentication, data validation, dynamic data updates, and shopping cart implementation are covered in detail. Students will learn how to configure PHP and an IIS Web Server, and learn how to implement RESTful servers for newer more data-driven sites.

Comprehensive hands-on exercises are integrated throughout to reinforce learning and develop real competency.

Course Prerequisites: Basic computer skills and knowledge of HTML fundamentals. Prior programming experience is helpful but not required to learn PHP.

COURSE CONTENT

Overview Of PHP

- Static vs. Dynamic Web Sites
- Dynamic Content from Databases
- Developing Dynamic Internet Applications
- Client-Side Scripting vs. Server-Side Scripting
- Overview of PHP Advantages and Capabilities
- Configuring php.ini
- PHP vs. ASP

Conditional Constructs

- True and False Expressions
- if, else and elseif
- switch/case Statement
- The ?: (Ternary) Operator

Modularity through Include Files

- Using Include Files
- The Require Statement
- Modularizing Code with Functions
- Defining and Using Basic Functions

PHP Functions

- Introduction to Functions
- Declaring Functions
- Scope
- Passing Arguments to Functions
- Local and Global Scope
- Passing Arguments to Functions by Value and Reference
- Variable Scoping and Return Values
- Recursion
- Coercive and Strict Type Declarations for Parameters and Return Values
- Optional and Rest Parameters
- Argument Unpacking
- Generator Return Expressions
- Anonymous Functions
- Iterator Functions
- Dynamic Function Calls
- Predefined PHP Functions

PHP 7 New Features

- Function Improvements
- New Operators
- Multibyte Strings
- Data Typing

Basic OOP in PHP

- Defining Object Oriented Programming
- Creating New Objects in PHP
- PHP Object Syntax
- Using Predefined PHP OOP Libraries

Working with Data Files in PHP

- Searching File Contents with Regular Expressions
- Changing and Editing File Contents
- Splitting and Joining Information Inside Files
- String Functions
- Multibyte String Functions
- Regular Expression Functions
- Reading, Writing and Deleting Files
- Handling File Permissions
- File Locking
- Reading Directory Contents
- Creating and Deleting Directories

Configuring and Using MySQL

- MySQL as a Client/Server Solution
- Introduction to MySQL Capabilities as a Powerful RDBMS
- Installing and Configuring MySQL
- Connecting to MySQL
- PHP Functions Specific to MySQL
- Executing SQL Calls
 - SELECT
 - INSERT
 - UPDATE
 - DELETE
- Fetching Results of SELECT statements
- Using PHP MyAdmin to Configure MySQL