

# Introduction to PHP Training (4 Day)

## Course Description

In this PHP training course, students will learn to create database-driven websites using PHP and MySQL or the database of their choice.

## Class Goals

- Learn how PHP works.
- Learn the basic syntax of PHP.
- Learn to create dynamic interactive pages with PHP.
- Learn to manipulate files with PHP.
- Learn to work with arrays in PHP.
- Learn to validate forms with PHP.
- Learn to write functions in PHP.
- Learn to manipulate and manage database data with PHP.
- Learn to authenticate users with PHP.
- Learn to manage sessions with PHP.
- Learn to work with the MDB2 package.
- Learn advanced form validation with regular expressions.
- Learn to send email with PHP.

## Course Outline

### PHP Basics

How PHP Works  
The php.ini File  
Basic PHP Syntax  
Variables  
First PHP Script  
PHP Operators  
Creating Dynamic Pages  
Passing Variables via the Query String

### Flow Control

Conditional Processing  
Working with Conditions  
Loops  
Working with Loops

### Arrays

Enumerated Arrays  
Working with Enumerated Arrays  
Associative Arrays  
Working with Associative Arrays  
Two-dimensional Arrays  
Array Manipulation Functions

### PHP and HTML Forms

HTML Forms  
Processing Form Input

**String Manipulation**

- Formatting Strings
- Working with String Manipulation Functions
- Magic Quotes

**Reusing Code and Writing Functions**

- Including Files
- Adding a Header and Footer
- User Functions
- Form Processing
- Form Validation and Presentation Functions

**Managing Data**

- Querying a Database
- Inserting Records

**MDB2**

- Advantages and Disadvantages of MDB2
- Using MDB2
- Creating a Customer Report

**Authentication with PHP and SQL**

- A Database-less Login Form
- Authenticating Users

**Regular Expressions**

- Perl-compatible Regular Expression Functions
- Regular Expression Syntax
- Form Validation Functions with Regular Expressions

**Session Control and Cookies**

- Sessions
- Cookies
- Authentication with Session Control

**Sending Email with PHP**

- mail()
- PHPMailer
- Sending a Password by Email

**File System Management**

- Opening a File
- Reading from a File
- Writing to a File
- Writing to a File
- File Locking
- Uploading Files via an HTML Form
- Getting File Information
- More File Functions
- Directory Functions
- Creating a Resume Management Page