

# PHP & MySQL Training Course

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| <ul style="list-style-type: none"><li>● <b>Understand Project Definition</b></li><li>● <b>Create Wireframe Of Project</b></li><li>● <b>Prepare Project Documentation</b></li><li>● <b>Basic fundamental of HTML &amp; CSS</b></li><li>● <b>Introduction of Web &amp; PHP</b><ul style="list-style-type: none"><li>→ What is PHP?</li><li>→ The history of PHP</li><li>→ Why choose PHP?</li><li>→ Installation overview</li></ul></li><li>● <b>First Steps</b><ul style="list-style-type: none"><li>→ Embedding PHP code on a page</li><li>→ Outputting dynamic text</li><li>→ The operational trail</li><li>→ Inserting code comments</li></ul></li><li>● <b>Exploring Data Types</b><ul style="list-style-type: none"><li>→ Variables</li><li>→ Strings</li><li>→ String functions</li><li>→ Numbers part one: Integers</li><li>→ Numbers part two: Floating points</li><li>→ Arrays</li><li>→ Associative arrays</li><li>→ Array functions</li><li>→ Booleans</li><li>→ NULL and empty</li><li>→ Type juggling and casting</li><li>→ Constants</li></ul></li></ul> | <ul style="list-style-type: none"><li>● <b>Control Structures: Logical Expressions</b><ul style="list-style-type: none"><li>→ If statements</li><li>→ Else and elseif statements</li><li>→ Logical operators</li><li>→ Switch statements</li></ul></li><li>● <b>Control Structures: Loops</b><ul style="list-style-type: none"><li>→ While loops</li><li>→ For loops</li><li>→ Foreach loops</li><li>→ Continue</li><li>→ Break</li><li>→ Understanding array pointers</li></ul></li><li>● <b>User-Defined Functions</b><ul style="list-style-type: none"><li>→ Defining functions</li><li>→ Function arguments</li><li>→ Returning values from a function</li><li>→ Multiple return values</li><li>→ Scope and global variables</li><li>→ Setting default argument values</li></ul></li><li>● <b>Debugging</b><ul style="list-style-type: none"><li>→ Common problems</li><li>→ Warnings and errors</li><li>→ Debugging and troubleshooting</li></ul></li></ul> |
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- **Building Web Pages with PHP**

- Links and URLs
- Using GET values
- Encoding GET values
- Encoding for HTML
- Including and requiring files
- Modifying headers
- Page redirection
- Output buffering

- **Working with Forms and Form Data**

- Building forms
- Detecting form submissions
- Single-page form processing
- Validating form values
- Problems with validation logic
- Displaying validation errors
- Custom validation functions
- Single-page form with validations

- **Working with Cookies and Sessions**

- Working with cookies
- Setting cookie values
- Reading cookie values
- Unsetting cookie values
- Working with sessions

- **MySQL Basics**

- MySQL introduction
- Creating a database
- Creating a database table
- CRUD in MySQL
- Populating a MySQL database
- Relational database tables

- **Using PHP to Access MySQL**

- Database APIs in PHP
- Connecting to MySQL with PHP
- Retrieving data from MySQL
- Working with retrieved data
- Creating records with PHP
- Updating and deleting records with PHP
- SQL injection
- Escaping strings for MySQL
- Introducing prepared statements

- **Building a Content Management System (CMS)**

- Blueprinting the application
- Building the CMS database
- Establishing your work area
- Creating and styling the first page
- Making page assets reusable
- Connecting the application to the database

- **Using Site Navigation to Choose Content**

- Adding pages to the navigation subjects
- Refactoring the navigation
- Selecting pages from the navigation
- Highlighting the current page
- Moving the navigation to a function

- **Application CRUD**

- Finding a subject in the database
- Refactoring the page selection
- Creating a new subject form
- Processing form values and adding subjects
- Passing data in the session
- Validating form values
- Creating an edit subject form
- Using single-page submission
- Deleting a subject
- Cleaning up
- Assignment: Pages CRUD
- Assignment results: Pages CRUD

- **Building the Public Area**

- The public appearance
- Using a context for conditional code
- Adding a default subject behaviour
- The public content area
- Protecting page visibility

- **Regulating Page Access**

- User authentication overview
- Admin CRUD
- Encrypting passwords
- Salting passwords
- Adding password encryption to CMS
- New PHP password functions
- Creating a login system
- Checking for authorization
- Creating a logout page

- **Advanced PHP Techniques**

- Using variable variables
- Applying more array functions
- Building dates and times: Epoch/Unix
- Formatting dates and times: Strings and SQL
- Setting server and request variables
- Establishing global and static variable scope
- Making a reference assignment
- Using references as function arguments
- Using references as function return values

- **Object-Oriented Programming (OOP)**

- Introducing the concept and basics of OOP
- Defining classes
- Defining class methods
- Instantiating a class
- Referencing an instance
- Defining class properties

- **OOP in Practice**

- Understanding class inheritance
- Setting access modifiers
- Using setters and getters
- Working with the static modifier
- Reviewing the scope resolution operator
- Referencing the Parent class
- Using constructors and destructors
- Cloning & Comparing objects

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- **Working with Files and Directories**

- File system basics
- Understanding file permissions
- Setting file permissions
- PHP permissions
- Accessing files
- Writing to files
- Deleting files
- Moving the file pointer
- Reading files
- Examining file details
- Working with directories
- Viewing directory content

- **Sending Emails**

- Configuring PHP for email
- Sending email with mail()
- Using headers
- Reviewing SMTP
- Using PHPMailer

- **Build Project step by step**

- New things related to project Definition