



# PHP and MYSQL Introduction Course Outline





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Duration: 3 Days

#### Course Overview and Objectives

PHP is a widely used programming language which works on the principal of server side scripting to produce dynamic Web pages. It can be easily integrated with HTML and SQL to produce these dynamic web pages, and is often used to process the contents of a Web page form as it is more secure and reliable than JavaScript.

You will learn how PHP can be combined with MySQL to create a very powerful online database engine. This free online PHP programming course will be of great interest to IT and Web development professionals who would like to learn more about using PHP and MySQL to integrate database functions into Websites, and to learners who would like to learn more about the functionality of PHP and MySQL.

#### Pre Requisites:

Practical working knowledge of Mac OS X

## PHP and MYSQL Introduction Course Outline

### Introduction

- Why use PHP and MySQL?
- The PHP programming environment
- Overview of SQL

### Setting up a Test Bed

- Decisions about a testing environment
- WAMP/MAMP
- Installing Apache, PHP and MySQL on your computer
- Testing on a remote Server
- Deciding on Development tools
- Using PHPMyAdmin

### Overview of PHP

- Setting up a PHP page
- The phpinfo() function
- Learning basic syntax
- Echoing HTML output to the browser
- The importance of comments
- Using single and double quotes

### Variables in PHP

- Using loose typed variables
- Assigning variables
- Overview of numeric, string and other types
- Assigning a variable to itself

### Logical operators

- Arithmetic operators
- Logical operators
- Comparisons
- Operator precedence

### Numbers in PHP

- Making calculations
- Using built-in numeric functions
- Incrementing and decrementing

### Strings in PHP

- Concatenating strings
- Trimming strings
- Removing slashes and other harmful characters
- String functions

### Control structures in PHP

- The If statement



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- FOR loops
- While loops
- The Switch

#### Transferring information between PHP pages

- GET and POST
- Different form field types
- Self-referencing forms
- Form handlers

#### Database fundamentals

- Structuring a database
- Using tables
- Table relationships
- Common data types

#### Creating a database

- Using PHPmyAdmin
- Adding a table
- Populating a table with types and data
- Browsing a table

#### Getting PHP to connect to MySQL

- Using the `mysql_connect()` function
- Using the `mysql_select_db()` function
- Testing a connection
- Writing a sample error trap

#### Querying MySQL using PHP

- Writing SQL queries
- Using Select, Insert, Update and Delete
- Querying MySQL and returning results
- Interpreting the returned array

#### Building a Web Application

- Creating pages to:
- Add entries
- Modify entries
- List entries
- Filter entries

#### Security features

- Validating entries

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