



## PHP Programming & MariaDB for Web Development

**Duration: 5 Days**    **Course Code: PHPPMARWD**    **Delivery Method: Company Event**

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### Overview:

The PHP Programming & MariaDB for Web Development course is designed to give delegates the knowledge to develop/maintain PHP scripts utilizing the MariaDB database system and HTML.

#### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### Target Audience:

UNIX and Windows Users, Web Developers and Programmers wishing to create web based systems utilising PHP and MariaDB.

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### Objectives:

- On completion of the PHP Programming & MariaDB for Web Development course the delegate will have a good practical knowledge of how to write successful HTML/PHP code utilising a MariaDB database.
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### Prerequisites:

Familiarisation with programming concepts is useful, this knowledge can be obtained by attendance on the Introduction to Programming course.

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### Follow-on-Courses:

- Apache Web Server (APH)
  - Perl Programming (PERL)
  - Python Programming 1 (PYP1)
  - Ruby Programming (RUBYP)
  - Ruby on Rails (RUBYR)
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## Content:

PHP Programming ; MariaDB for Web Development Training Course

Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: PHP LANGUAGE BASICS

- Programming Basics
- Comment markers
- PHP Tags
- Output Commands
- Using STDIN STDOUT and STDERR
- Using Files
- Include\_path
- Opening files
- Reading files
- Writing to Files
- RTRIM
- Operators
- Assignment Operators
- Increment/Decrement Operators
- Arithmetic Operators
- String Operators
- Comparison Operators
- Logical Operators

Session 2: PHP VARIABLES AND ARRAYS

- Naming Rules
- Data Types
- Numerical
- Integer
- Floating Point Numbers
- Floating Point Precision
- Single Quoted Strings
- Double Quoted Strings
- Creating and Assigning Variables
- Assigning Values to Variables
- Type Conversion
- Super Globals
- Constants
- Variable Variables
- Creating/modifying indexed and associative arrays
- Multi-Dimensional arrays
- Using array functions
- Sorting an arrayPHP Programming ; MariaDB for Web Development Training Course

Course Contents - DAY 2

Session 3: CONTROL STRUCTURES

Session 5: REGULAR EXPRESSIONS

- Meta-Characters
- Sequences
- Sets
- Pattern Matching with ereg and eregi
- Pattern Matching with preg\_match
- Splitting Text - preg\_split
- Replacing Text - preg\_replacePHP Programming ; MariaDB for Web Development Training Course

Course Contents - DAY 3

Session 6: PHP OBJECT ORIENTED

- PHP Object Orientated Concepts
- Creating Classes and Objects
- Constructor and Destructor functions
- Inheritance
- Access Modifiers

Session 7: PHP ; PEAR

- What is PEAR?
- Command Line Package Installer
- Fully-Automatic Installation
- Semi-Automatic Installation
- What is PECL?

Session 8: PHP ; HTML

- HTML/PHP ExamplesPHP Programming ; MariaDB for Web Development Training Course

Course Contents - DAY 4

Session 9: PHP CONFIGURATION

- Working with External Files
- Error Reporting
- Interacting with External Programs

Session 10: BASIC SQL STATEMENTS

- Creating Databases and Tables
- Inserting Data into Tables
- Viewing Tables
- UPDATE
- Drop

Session 11: CONNECTING TO MariaDB/MySQL

- mysqli\_connect
- mysqli\_error
- Die

Session 12: USING PHP TO PERFORM DATABASE FUNCTIONS

- Inserting Data into a Database
- Creating Queries
- Executing Queries
- Processing the Returned Query Data
- Updating the DatabasePHP Programming ; MariaDB for Web Development Training Course

Course Contents - DAY 5

Session 13: GENERATING HTML USING PHP

- PHP Inside HTML
- HTML Form with Embedded PHP
- Multiple HTML Pages/Forms with PHP

Session 14: EMAIL AND COOKIES USING PHP

- Generating Email using PHP
- Generating Cookies using PHP
- Using Cookies

Session 15: PHP AND DATABASE SECURITY

- Designing Databases
- Connecting to Database
- Encrypted Storage Model
- SQL Injection
- Security Techniques
- Error Reporting
- User Submitted Data

- Statement Blocks
- If Construct
- Else Keyword
- Elseif Keyword
- Switch
- Looping Constructs
- While Loop
- Do-while Loop
- For Loop
- Foreach Loop
- Loop Control Words
- Break
- Continue

#### Session 4: PHP FUNCTIONS

- Overview
- Variable Scoping
- Global Keyword
- Static Keyword
- Argument Passing by Value
- Argument Passing by Reference
- Returning Values
- Including External PHP Functions
- Conditionally Created Functions
- Functions Created Inside Functions

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#### Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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