

PHP & MySQL

Duration: 5 days

Introduction	PHP is a general-purpose scripting language designed for web development to produce dynamic web pages. It also has evolved to include a command-line interface capability and can be used in standalone graphical applications. PHP can be deployed on most web servers and as a standalone interpreter, on almost every operating system and platform.
Learning Objectives	At the end of the session, participants will be able to provide useful help in PHP projects for scripting as well as automation. They will be able to work with test frameworks created in PHP used in automation projects
Prerequisites	Any programming/scripting Language
Hardware/Software	1) WAMP server on Windows 2) Eclipse IDE for PHP (Eclipse Helios or more) with Eclipse PDT support 3) phpMyAdmin tool for MYSQL 4) Browsers: Chrome 19, Firefox 11, IE 5) MSOffice 2007 or more
Recommended Books	PHP cook book By Adam Trachtenberg-O Rielly media Learning PHP, MySQL –online http://www.amazon.com/Programming-PHP-Rasmus-Lerdorf/dp/1565926102/ref=cm_lmf_tit_7/189-3178292-6939214#reader_1565926102
Relevant Trainings	
Remarks	

CONTENTS IN DETAIL:-

DAY 1

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

Basic Scripting and Looping Constructs

- PHP Scripting Fundamentals
- Print Statement

- Code Blocks
- Primitive Data Types
- Defining Constants and Variables
- Looping Constructs
 - while
 - do... while
 - for
 - exit & break

Conditional Constructs

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

DAY 2

Introduction to the Apache Web Server

- Apache Configuration Files
- Configuring Apache for PHP
- WWW Sites within Apache
- Apache Virtual Hosts
- Website Properties

PHP Functions

- Introduction to Functions
- Declaring Functions
- Scope
- Passing Arguments to Functions
- Local and Global Scope
- Passing Arguments to Functions by Value and Reference
- Returning Values from a Function
- Using Include Files
- The Require Statement
- Recursion
- Dynamic Function Calls
- Predefined PHP Functions

PHP Operators

- Logical Operators
- Relational Operators
- Bitwise Operators

- Other Operators

Arrays in PHP

- What are Arrays?
- Usage of Arrays in PHP
- Array Indexing
- Initializing Arrays
- Operating on Arrays
- Sorting Arrays
- One-Dimensional Arrays
- Multi-Dimensional Arrays
- Associative Arrays
- Array Functions
- Forms and Arrays in Web Applications

DAY 3

Working with Databases and Forms

- Configuring PHP For Database Support
- PHP's Database APIs
- PHP's SQL API
- MySQL vs. Access
- MySQL vs. SQL Server
- Database Drivers
- Database Driver Class Wrappers
- ODBC
- Simple SQL Queries via PHP
- Tracking Visitors with Session IDs
- Populating Forms
- Retrieving Data from Forms

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
- Regular Expression Functions
- Reading, Writing and Deleting Files
- Handling File Permissions
- File Locking
- Reading Directory Contents
- Creating and Deleting Directories

DAY 4

Using Cookies with PHP

- Purpose of Cookies
- Cookie Myths
- Setting Cookies
- Retrieving Cookies
- Expiring Cookies
- Deleting Cookies
- Storing Arrays in Cookies

Miscellaneous PHP Tasks

- Error Logging
- Session Management and Maintaining State
- Web Application Architecture
- Using Environment Variables
- Changing Execution by Redirecting to Other URLs
- Embedding JavaScript within PHP

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
 - FETCH
 - UPDATE
 - DELETE

Using PHP MyAdmin to configure MySQL

DAY 5 PROJECT

Enabling E-Commerce (PROJECT)

- Required Characteristics of an E-Commerce Site
- Authentication and Authorization
- Data Validation
- Building a Custom Shopping Cart
- Persisting Shopping Cart Data Over Multiple Pages

- Criteria for Evaluating Third Party Shopping Cart Solutions
- Open Source vs. Commercial Shopping Cart Solutions
- Order Processing via the Web
- Implementing Order System Security using SSL
- Using Mail Servers (SMTP and Sendmail) for Client Communication
- Configuring E-mail Output Parameters