Malaysia Ministry of Finance (MOF)
Registered Company

HRDF
Approved
Training
Provider

Course Name : **PHP AND MYSQL WEB FRAMEWORK DEVELOPMENT**
Duration : **3 Days (Physical Classroom / Virtual Live Instructor)**
Skill Level : **Intermediate**

COURSE DESCRIPTION:
Our PHP Certified Trainer will guide you through the intermediate to advanced level concepts of PHP and MySQL in this "PHP and MySQL Advanced" course. You will receive a comprehensive overview of object-oriented programming, as well as advanced web development methodologies like web services, security, and framework development. The course outcomes include the ability to:

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- Implement the latest PHP concepts and language constructs.
- Apply object-oriented programming (OOP) principles to your applications.
- Handle databases using OOP.
- Retrieve and process data from web services.
- Master best practices and security measures.
- Develop your own custom PHP framework, similar to Laravel.

WHAT WILL YOU LEARN?
In this "PHP and MySQL Advanced" course, you will learn intermediate to advanced level concepts of PHP and MySQL, including:
- New PHP concepts and language constructs.
- Object-oriented programming (OOP) concepts and their application in PHP.
- Object-oriented database handling techniques.
- How to request and process data from web services.
- Best practices and security measures in PHP and MySQL.
- How to build your own custom PHP framework, similar to Laravel.

The course will be taught by a PHP Certified Trainer, who will provide a comprehensive overview of object-oriented programming, advanced web development methodologies like web services, security, and framework development.

PREREQUISITE:
The prerequisites for this "PHP and MySQL Advanced" course will likely include a solid understanding of the basics of PHP and MySQL.

METHODOLOGY:
This program will be conducted with interactive lectures, PowerPoint presentations, discussions, and practical exercises. This course can be conducted as instructor-led (ILT) or virtual instructor-led training (VILT).

JOB SCOPE:
Upon completion of this course, candidates may pursue the following career paths:
- Web Developer (PHP & Laravel)
- Backend Developer
- Full Stack Developer
- PHP Developer
- Software Developer

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DAY I

MODULE 1: INTRODUCTION
- Welcome
- What is PHP
- Why use PHP
- Installation
- Setup Development Environment

MODULE 2: PHP SYNTAX REVIEW
- Tags
- Comments
- Whitespace
- Code Blocks
- Language Constructs
- Data Types
- Variables & Constants
- Operators
- Control Structures & Loops
- Arrays
- Functions

DAY 2

MODULE 3: OBJECT ORIENTED PROGRAMMING
- Introduction to OOP
- Create a Class
- Class Constants, Properties and Methods
- Object Instances
- Member Visibility
- Static Properties and Methods
- Inheritance
- Overriding
- Magic Methods
- Class and Method Abstraction
- Object Interface
- Type Hinting
- Traits
- Namespace
- Object Cloning and Comparison
- Functions That Work with Classes
- Exceptions

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MODULE 4: OBJECT ORIENTED DATABASE HANDLING
- Type Casting
- Variable Variables
- Inspecting Variables
- Determining If a Variable Exists
- Determining If a Variable is Empty
- Constants

DAY 3

MODULE 5: WEB SERVICES
- Web Services
- Data Formats
- Parsing APIs
- Web Service Requests
- Soap Services
- RESTful Services

MODULE 6: PROJECT: BUILD YOUR OWN PHP FRAMEWORK
- MySQL 101
- Classes 101
- Intro to PDO
- PDO Refactoring and Collaborators
- Hide your Secret Passwords
- Make a Router
- Dry Up your Views
- Array Filtering
- Forms, Request Types, and Routing
- Dynamic Inserts with PDO
- Composer Autoloading
- Our First DI Container
- Refactoring to Controller Classes
- Switch to Namespaces
- Final Touch

CONCLUSION
- QA
- Useful References and Books
- Feedback

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