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| Course Code: | PHP-DMV-002 |
| Course Title: | Introduction to PHP & MySQL |
| Duration | 2 Days |
| Training Objectives | |
| <p>MySQL™ and PHP are two of the most popular open source technologies to emerge during the past decade. PHP is a powerful language for writing server-side Web applications. MySQL is the world's most popular open source database. Together, these two technologies provide you with a powerful platform for building database-driven Web applications.</p> <p>This hands-on MySQL and PHP training course teaches attendees everything they need to successfully build data-driven Web sites using MySQL and PHP.</p> | |
| Hands-on/Lecture Ratio | |
| <p>This MySQL and PHP training class is 70% hands-on, 30% lecture, with the longest lecture segments lasting for 10 minutes. Students "learn by doing," with immediate opportunities to apply the material they learn to real-world problems.</p> | |
| PHP Training Materials | |
| <p>All MySQL and PHP training students receive a copy of Apress' <u>Beginning PHP and MySQL 5: From Novice to Professional</u> and other related courseware.</p> | |
| Software Needed on Each Student PC | |
| <p>The following should be installed on each student PC:</p> <ul style="list-style-type: none">• Microsoft Windows XP / Microsoft Windows Vista / Microsoft Windows 7• Internet Explorer 6 or later or Firefox 2 or later, Google Chrome or Opera.• Adobe Dreamweaver CS 5 or earlier <p>Note: WAMP, available at http://www.wampserver.com/en/download.php provides a single installer with everything you need for the class Windows. Students will install wamp as part of the hands-on "learn by doing" activities.</p> | |
| Training Outline | |
| <ul style="list-style-type: none">• PHP Basics<ul style="list-style-type: none">○ How PHP Works○ The php.ini File○ Basic PHP Syntax<ul style="list-style-type: none">▪ PHP Tags▪ PHP Statements and Whitespace▪ Comments | |



- PHP Functions
 - Hello World!
- PHP Tags
- PHP Statements and Whitespace
- Comments
- PHP Functions
- Hello World!
- Variables
 - Variable Types
 - Variable Names (Identifiers)
 - Type Strength
 - Hello Variables!
 - Variable Scope
 - Superglobals
 - Constants
 - Variable-Testing and Manipulation Functions
- Variable Types
- Variable Names (Identifiers)
- Type Strength
- Hello Variables!
- Variable Scope
- Superglobals
- Constants
- Variable-Testing and Manipulation Functions
- PHP Operators
- Creating Dynamic Pages
 - Single Quotes vs. Double Quotes
 - Howdy World!
- Single Quotes vs. Double Quotes
- Howdy World!
- Conclusion
- Flow Control
 - Conditional Processing
 - If Conditions
 - If Conditions
 - Loops
 - while
 - do...while
 - for
 - break and continue
 - while
 - do...while
 - for
 - break and continue
 - Conclusion
- Arrays
 - Enumerated Arrays
 - Initializing Arrays
 - Appending to an Array
 - Reading from Arrays
 - Looping through Arrays



- Initializing Arrays
- Appending to an Array
- Reading from Arrays
- Looping through Arrays
- Associative Arrays
 - Initializing Associative Arrays
 - Reading from Associative Arrays
 - Looping through Associative Arrays
 - Superglobal Arrays
- Initializing Associative Arrays
- Reading from Associative Arrays
- Looping through Associative Arrays
- Superglobal Arrays
- Two-dimensional Arrays
 - Reading from Two-dimensional Arrays
 - Looping through Two-dimensional Arrays
- Reading from Two-dimensional Arrays
- Looping through Two-dimensional Arrays
- Array Manipulation Functions
- Conclusion
- PHP and HTML Forms
 - HTML Forms
 - How HTML Forms Work
 - A Sample HTML Form
 - Form Variables
 - How HTML Forms Work
 - A Sample HTML Form
 - Form Variables
 - Conclusion
- String Manipulation
 - Formatting Strings
 - Concatenation
 - String Manipulation Functions
 - Examples of String Functions
 - Concatenation
 - String Manipulation Functions
 - Examples of String Functions
 - Magic Quotes
 - `magic_quotes_gpc`
 - `magic_quotes_runtime`
 - Recommendation on Magic Quotes
 - Conclusion
 - `magic_quotes_gpc`
 - `magic_quotes_runtime`
 - Recommendation on Magic Quotes
 - Conclusion
- Reusing Code and Writing Functions
 - Including Files
 - `require`
 - `require_once`
 - `auto_prepend_file` and `auto_append_file`



- require
- require_once
- auto_prepend_file and auto_append_file
- User Functions
 - Defining and Calling Functions
 - Default Values
 - Variable Scope
 - By Reference vs. By Value
- Defining and Calling Functions
- Default Values
- Variable Scope
- By Reference vs. By Value
- Form Processing
 - Code Organization
- Code Organization
- Conclusion
- Simple SELECTs
 - Introduction to the Northwind Database
 - Some Basics
 - Comments
 - Whitespace and Semi-colons
 - Case Sensitivity
 - Comments
 - Whitespace and Semi-colons
 - Case Sensitivity
 - SELECTing All Columns in All Rows
 - SELECTing Specific Columns
 - Sorting Records
 - Sorting By a Single Column
 - Sorting By Multiple Columns
 - Sorting By Column Position
 - Ascending and Descending Sorts
 - Sorting By a Single Column
 - Sorting By Multiple Columns
 - Sorting By Column Position
 - Ascending and Descending Sorts
 - The WHERE Clause and Operator Symbols
 - Checking for Equality
 - Checking for Inequality
 - Checking for Greater or Less Than
 - Checking for NULL
 - WHERE and ORDER BY
 - Checking for Equality
 - Checking for Inequality
 - Checking for Greater or Less Than
 - Checking for NULL
 - WHERE and ORDER BY
 - The WHERE Clause and Operator Words
 - The BETWEEN Operator
 - The IN Operator
 - The LIKE Operator



- The NOT Operator
- The BETWEEN Operator
- The IN Operator
- The LIKE Operator
- The NOT Operator
- Checking Multiple Conditions
 - AND
 - OR
 - Order of Evaluation
- AND
- OR
- Order of Evaluation
- Conclusion
- Subqueries, Joins and Unions
 - Subqueries
 - Joins
 - Table Aliases
 - Multi-table Joins
 - Table Aliases
 - Multi-table Joins
 - Outer Joins
 - Unions
 - UNION ALL
 - UNION Rules
 - UNION ALL
 - UNION Rules
 - Conclusion
- Inserting, Updating and Deleting Records
 - INSERT
 - UPDATE
 - DELETE
 - Conclusion
- Managing Data
 - Querying a Database
 - mysqli() Overview
 - mysqli Methods and Properties
 - Inserting and Updating Records
 - mysqli Prepared Statements
 - mysqli() Overview
 - mysqli Methods and Properties
 - Inserting and Updating Records
 - mysqli Prepared Statements
- PEAR:DB
 - Advantages and Disadvantages of PEAR DB
 - Why use a database abstraction layer?
 - When not to use a database abstraction layer?
 - Why use a database abstraction layer?
 - When not to use a database abstraction layer?
 - Using PEAR DB
- Authentication with PHP and SQL
 - A Database-less Login Form



- Conclusion
- Regular Expressions
 - Perl-compatible Regular Expression Functions
 - preg_match()
 - preg_replace()
 - Regular Expression Tester
 - preg_match()
 - preg_replace()
 - Regular Expression Tester
 - Regular Expression Syntax
 - Start and End (^ \$)
 - Number of Occurrences (? + * { })
 - Common Characters (. \d \D \w \W \s \S)
 - Grouping ([])
 - Negation (^)
 - Subpatterns (())
 - Alternatives (|)
 - Escape Character (\)
 - Start and End (^ \$)
 - Number of Occurrences (? + * { })
 - Common Characters (. \d \D \w \W \s \S)
 - Grouping ([])
 - Negation (^)
 - Subpatterns (())
 - Alternatives (|)
 - Escape Character (\)
 - Form Validation Functions with Regular Expressions
 - Conclusion
- Session Control and Cookies
 - Sessions
 - Configuring Sessions
 - Session Functions
 - Configuring Sessions
 - Session Functions
 - Cookies
 - Conclusion
- Sending Email with PHP
 - mail()
 - Shortcomings of mail()
 - Shortcomings of mail()
 - PHPMailer
 - Conclusion
- File System Management
 - Opening a File
 - fopen()
 - fopen()
 - Reading from a File
 - fgets()
 - fgets()
 - Writing to a File
 - fwrite()



- fwrite()
- File Locking
 - flock()
- flock()
- Uploading Files via an HTML Form
- Getting File Information
- More File Functions
- Directory Functions
 - Getting a Directory Listing
- Getting a Directory Listing
- Conclusion

Lunch Break

Jellof/Fried Rice, Pasta/Spaghetti Bolognias, Seasoned Chicken In sauce, Fried Fish in Tomato Sauce, Pounded Yam/Semovita/Garri, Efo Riro/Egusi/Afan, Plantain, Vegetable Salad.