



Noble Software Consulting IT Training

PHP/MySQL COURSE OVERVIEW

This course teaches learners to create dynamic Web sites. Learners will be able to apply their knowledge to the creation of dynamic Web applications such as content management, user registration, and e-commerce websites with database interactivity.

PHP/MySQL COURSE OUTLINE– 50 HRS

❖ INSTALLING REQUIRED SOFTWARE

- Installing MySQL
- Installing Apache with PHP
- Setting MySQL permissions
- Testing the installation
- Configuring PHP

❖ PHP BASICS

- PHP
- Basic syntax
- Sending data
- Understanding PHP, HTML, and white space
- Writing comments
- Using variables
- Using strings
- Using numbers
- Using constants

❖ **PROGRAMMING WITH PHP**

- Creating HTML forms
- Handling HTML forms
- Managing magic quotes
- Using conditionals and operators
- Validating form data
- Using arrays
- Creating and accessing arrays
- Multidimensional arrays
- Arrays and strings
- Sorting arrays
- For and While loops

❖ **CREATING DYNAMIC WEB SITES**

- Including multiple files
- Using PHP redux
- Making sticky forms
- Creating your own functions
- Creating a function that takes arguments
- Setting default argument values
- Returning values from a function
- Variable scope
- Date and time functions

❖ **SQL AND MYSQL**

- MySQL
- Choosing column types
- Choosing other column properties
- Using MySQL client
- Creating databases and tables
- Inserting records
- Selecting data
- Using conditionals
- Using LIKE and NOT LIKE
- Sorting and limiting query results
- Updating and deleting data
- Using text and numeric functions
- Formatting date and time functions

❖ **ADVANCED SQL AND MYSQL**

- Normalization, keys, and relationships
- First Normal Form
- Second Normal Form
- Third Normal Form
- Creating and populating the database
- Performing joins
- Grouping selected results
- Creating indexes
- Using different table types
- Performing basic FULLTEXT searches
- Performing Boolean FULLTEXT searches
- Optimizing the database

❖ **ERROR HANDLING AND DEBUGGING**

- General error types and debugging
- Debugging HTML
- Displaying PHP errors
- Adjusting PHP error reporting
- Creating custom error handlers
- Logging PHP errors
- PHP debugging techniques
- SQL and MySQL debugging techniques

❖ **USING PHP WITH MYSQL**

- Modifying the template
- Connecting to MySQL and selecting the database
- Executing simple queries
- Retrieving query results
- Ensuring secure SQL
- Counting returned records
- Updating records with PHP

❖ **DEVELOPING WEB APPLICATIONS**

- Adjusting behavior for server settings
- Sending values manually
- Using hidden form inputs
- Editing existing records
- Paginating query results
- Making sortable displays
- Understanding HTTP headers

❖ **COOKIES AND SESSIONS**

- Setting cookies
- Accessing cookies
- Setting cookie parameters
- Deleting cookies
- Setting session variables
- Accessing session variables
- Deleting session variables
- Changing session behavior
- Changing the session cookie settings
- Using sessions without cookies
- Improving session security

❖ **WEB APPLICATION SECURITY**

- Preventing multiple submissions
- Validating the right form
- Handling HTML
- Validating data
- JavaScript form validation
- Defining a pattern with regular expressions
- Matching regular expression patterns
- Matching and replacing patterns
- Database security and encryption
- Secure salt storage

❖ **EXTENDED TOPICS**

- Handling File Uploads
- Uploading PHP Files Creating Java
- Script Using Output Buffering Using the Improved MySQL Extension
- New MySQL Features
- Using Prepared Statements
- Using PEAR

❖ **CONTENT MANAGEMENT**

- Creating the template
- Creating the basic pages
- Managing URLs
- The list() function
- The serialize() and urlencode() functions
- Managing files
- Viewing and downloading files

❖ **USER REGISTRATION**

- Creating the templates
- Writing the configuration scripts
- Creating the home page
- Registration
- Activating an account
- Logging in and logging out
- Resetting a password
- Changing a password

❖ **E-COMMERCE**

- Creating the database
- The administration side
- Creating the public template
- The product catalog
- The shopping cart
- Recording the orders