

## **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

## **Conditional Constructs**

- True and False Expressions
- If, Else and Else if
- Switch/Case Statement
- The (Ternary) Operator
- Timestamps

## **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
- They Require Statement
- Recursion
- Dynamic Function Calls
- Predefined PHP Functions

## **Basic Scripting and Looping Constructs**

- PHP Scripting Fundamentals
- Print Statement
- Code Blocks
- Primitive Data Types
- Defining Constants and Variables
- Looping Constructs

## **Introduction to the Apache Web Server**

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

## **PHP Operators**

- Logical Operators
- Relational Operators
- Bitwise Operators
- Other Operators

## **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

## **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

## **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

## **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
- Tracking Visitors with Session IDs
- Populating Forms
- Retrieving Data from Forms

## **Enabling E-Commerce**

- Required Characteristics of an Ecommerce 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 Send mail) for Client Communication
- Configuring E-mail Output Parameters

### **Miscellaneous PHP Tasks**

- Error Logging
- Session Management & Maintaining State
- Web Application Architecture
- Using Environment Variables
- Changing Execution by Redirecting to Other URLs
- Embedding JavaScript within PHP
- Using the HTTP Protocols to Pass Data
- Showing Different Content to Different Browsers
- Getting IP Addresses from Visitors

### **Using Cookies with PHP**

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