

# Diplomado Website Programming with PHP, MySQL & Ajax



Actualmente ofrecemos entrenamiento en PHP 5.0 en conjunto con MySQL 5.0 a través de nuestro *Diplomado Website Programming with PHP 5.0 & MySQL 5.0 & Ajax*. En este diplomado se enseña todo para crear un sitio Web completo, desde cómo organizar un sitio hasta cómo instalar SSL para seguridad, se crean muchos ejercicios reales como registro de información de clientes a una base de datos, foros de discusión, envío de correo, manejo de

usuarios y sesiones, seguimiento de visitas, encuestas en línea listas de correo y noticias, carro de compras, etc. También se cubre una introducción a Ajax. Para alguien que desea aprender algo más que sentencias if o while en PHP éste es un entrenamiento a considerar.

Este Diplomado tiene como objetivo enseñar al alumno a programar un Website completo y funcional desde cero utilizando PHP y MySQL. Al igual que nuestros otros diplomados ofrece un entrenamiento INTEGRAL y de los más completos, a tal grado que el alumno termina el diplomado con código listo para usarse y al mismo tiempo que permite reducir el costo de entrenamiento y lo más importante reducir el tiempo que invertiría en tomar diferentes cursos de cada tema.

El diplomado pretende ser 60% práctico y permite al alumno desarrollar durante el diplomado un Website completamente funcional con características como manejo de usuarios y sesiones, seguimiento de visitas, encuestas en línea, foros de discusión, listas de correo y noticias, carro de compras, etc.

## CONTENIDO

### Módulo I.- Planning the Web Site

- Introduction
- What Is PHP?
- What Is MySQL?
- Why Use PHP and MySQL?
- Some of PHP's Strengths
- What Is New in PHP 5?
- Some of MySQLs Strengths
- What Is New in MySQL 5?

### Chapter 1. PHP

- Before You Begin: Accessing PHP
- Creating a Sample Application:
- Embedding PHP in HTML
- Adding Dynamic Content
- Accessing Form Variables
- Understanding Identifiers
- Examining Variable Types
- Declaring and Using Constants
- Understanding Variable Scope
- Using Operators
- Working Out the Form Totals
- Understanding Precedence and Associativity
- Using Variable Functions
- Making Decisions with Conditionals
- Repeating Actions Through Iteration
- Breaking Out of a Control Structure or Script
- Employing Alternative Control Structure
  - Syntax
- Using declare

### Chapter 2. Storing and Retrieving Data

- Saving Data for Later
- Storing and Retrieving Bob's Orders
- Processing Files
- Opening a File
- Writing to a File
- Closing a File
- Reading from a File
- Using Other Useful File Functions
- Locking Files
- A Better Way: Database Management Systems

### Chapter 4. String Manipulation and Regular Expressions

- Creating a Sample Application: Smart Form Mail
- Formatting Strings
- Joining and Splitting Strings with String Functions
- Comparing Strings
- Matching and Replacing Substrings with String Functions
- Introducing Regular Expressions
- Finding Substrings with Regular Expressions
- Replacing Substrings with Regular Expressions
- Splitting Strings with Regular Expressions

### Chapter 5. Reusing Code and Writing Functions

- The Advantages of Reusing Code
- Using require() and include()
- Using Functions in PHP
- Defining Your Own Functions
- Examining Basic Function Structure
- Using Parameters
- Understanding Scope
- Passing by Reference Versus Passing by Value
- Using the return Keyword
- Implementing Recursion

### Chapter 6. Object-Oriented PHP

- Understanding Object-Oriented Concepts
- Creating Classes, Attributes, and Operations in PHP
- Instantiating Classes
- Using Class Attributes
- Controlling Access with private and public
- Calling Class Operations
- Implementing Inheritance in PHP
- Designing Classes
- Writing the Code for Your Class
- Understanding Advanced Object-Oriented Functionality in PHP

### Chapter 7. Error and Exception Handling

- Exception Handling Concepts
- The Exception Class
- User-Defined Exceptions
- Exceptions in Bob's Auto Parts
- Exceptions and PHP's Other Error Handling Mechanisms

## Módulo III.- MySQL

### Chapter 8. Designing Your Web Database

- Relational Database Concepts
- Designing Your Web Database
- Web Database Architecture

### Chapter 9. Creating Your Web Database

- Using the MySQL Monitor
- Logging In to MySQL
- Creating Databases and Users
- Setting Up Users and Privileges
- Introducing MySQL's Privilege System
- Setting Up a User for the Web
- Using the Right Database
- Creating Database Tables
- Understanding MySQL Identifiers
- Choosing Column Data Types

### Chapter 10. Working with Your MySQL Database

- What Is SQL?
- Inserting Data into the Database
- Retrieving Data from the Database
- Updating Records in the Database
- Altering Tables After Creation
- Deleting Records from the Database
- Dropping Tables
- Dropping a Whole Database

### Chapter 11. Accessing Your MySQL Database from the Web with PHP

- How Web Database Architectures Work
- Querying a Database from the Web
- Putting New Information in the Database
- Using Prepared Statements
- Using Other PHP-Database Interfaces

### Chapter 12. Advanced MySQL Administration

- Understanding the Privilege System in Detail
- Making Your MySQL Database Secure
- Getting More Information About Databases
- Optimizing Your Database
- Backing Up Your MySQL Database
- Restoring Your MySQL Database
- Implementing Replication

### Chapter 13. Advanced MySQL Programming

- The LOAD DATA INFILE Statement
- Storage Engines
- Transactions
- Foreign Keys
- Stored Procedures

## Módulo IV.- Ecommerce and Security.

### Chapter 14. Running an E-commerce Site

- Deciding What You Want to Achieve
- Considering the Types of Commercial Websites
- Understanding Risks and Threats
- Choosing a Strategy

### Chapter 15. E-commerce Security Issues

- How Important Is Your Information?
- Security Threats
- Usability, Performance, Cost, and Security
- Creating a Security Policy
- Authentication Principles
- Encryption Basics
- Digital Certificates
- Secure Web Servers
- Auditing and Logging
- Firewalls
- Data Backups
- Physical Security

### Chapter 16. Web Application Security

- Strategies for Dealing with Security
- Identifying the Threats We Face
- Understanding Who We're Dealing With
- Securing Your Code
- Securing Your Web Server and PHP
- Database Server Security
- Protecting the Network
- Computer and Operating System Security
- Disaster Planning

### Chapter 17. Implementing Authentication with PHP and MySQL

- Identifying Visitors
- Implementing Access Control
- Using Basic Authentication
- Using Basic Authentication in PHP
- Using Basic Authentication with Apache's .htaccess Files
- Using mod\_auth\_mysql Authentication
- Creating Your Own Custom Authentication

### Chapter 18. Implementing Secure Transactions with PHP and MySQL

- Providing Secure Transactions
- Using Secure Sockets Layer (SSL)
- Screening User Input
- Providing Secure Storage
- Storing Credit Card Numbers
- Using Encryption in PHP

## Módulo V.- Advanced PHP Techniques.

### Chapter 19. Interacting with the File System and the Server

- Uploading Files
- Using Directory Functions
- Interacting with the File System
- Using Program Execution Functions
- Interacting with the Environment: getenv() and putenv()

### Chapter 20. Using Network and Protocol Functions

- Examining Available Protocols
- Sending and Reading Email
- Using Data from Other Websites
- Using Network Lookup Functions
- Backing Up or Mirroring a File

### Chapter 21. Managing the Date and Time

- Getting the Date and Time from PHP
- Converting Between PHP and MySQL Date Formats
- Calculating Dates in PHP
- Calculating Dates in MySQL
- Using Microseconds
- Using the Calendar Functions

### Chapter 22. Generating Images

- Setting Up Image Support in PHP
- Understanding Image Formats
- Creating Images
- Using Automatically Generated Images in Other Pages
- Using Text and Fonts to Create Images
- Drawing Figures and Graphing Data
- Using Other Image Functions

### Chapter 23. Using Session Control in PHP

- What Is Session Control?
- Understanding Basic Session Functionality
- Implementing Simple Sessions
- Creating a Simple Session Example
- Configuring Session Control
- Implementing Authentication with Session Control

### Chapter 24. Other Useful Features

- Evaluating Strings: eval()
- Terminating Execution: die() and exit()
- Serializing Variables and Objects
- Getting Information About the PHP Environment
- Temporarily Altering the Runtime Environment
- Highlighting Source Code
- Using PHP on the Command Line

## Módulo VI.- Building Practical PHP and MySQL projects.

### Chapter 25. Using PHP and MySQL for Large Projects

- Applying Software Engineering to Web Development
- Planning and Running a Web Application Project
- Reusing Code
- Writing Maintainable Code
- Implementing Version Control
- Choosing a Development Environment
- Documenting Your Projects
- Prototyping
- Separating Logic and Content
- Optimizing Code
- Testing

### Chapter 26. Debugging

- Programming Errors
- Variable Debugging Aid
- Error Reporting Levels
- Altering the Error Reporting Settings
- Triggering Your Own Errors
- Handling Errors Gracefully

### Chapter 27. Building User Authentication and Personalization

- Solution Components
- Solution Overview
- Implementing the Database
- Implementing the Basic Site
- Implementing User Authentication
- Implementing Bookmark Storage and Retrieval
- Implementing Recommendations
- Considering Possible Extensions

### Chapter 28. Building a Shopping Cart

- Solution Components
- Solution Overview
- Implementing the Database
- Implementing the Online Catalog
- Implementing the Shopping Cart
- Implementing Payment
- Implementing an Administration Interface
- Extending the Project
- Using an Existing System

## Chapter 29. Building a Web-Based Email Service

- Solution Components
- Solution Overview
- Setting Up the Database
- Examining the Script Architecture
- Logging In and Out
- Setting Up Accounts
- Reading Mail
- Sending Mail
- Extending the Project

## Chapter 30. Building a Mailing List Manager

- Solution Components
- Solution Overview
- Setting Up the Database
- Defining the Script Architecture
- Implementing Login
- Implementing User Functions
- Implementing Administrative Functions
- Extending the Project

## Chapter 31. Building Web Forums

- Understanding the Process
- Solution Components
- Solution Overview
- Designing the Database
- Viewing the Tree of Articles
- Viewing Individual Articles
- Adding New Articles
- Adding Extensions
- Using an Existing System

## Chapter 32. Generating Personalized PDF Documents

- Project Overview
- Solution Components
- Solution Overview
- Handling Problems with Headers
- Extending the Project

## Chapter 33. Connecting to Web Services with XML and SOAP

- Project Overview: Working with XML and Web Services
- Solution Components
- Solution Overview
- Installing the Project Code
- Extending the Project

## Chapter 34. Building Web 2.0 Applications with Ajax

- What Is Ajax?
- Fundamental Ajax
- Adding Ajax Elements to Earlier Projects



**Requisitos:**

Indispensable manejo de ambiente Windows. Se recomienda conocimientos previos de programación en cualquier lenguaje.

**Duración aproximada:**

120 horas

**Lugar:**

Altadena 26. Col. Nápoles, México, D .F.

**Formas de pago:**

El pago del diplomado debe realizarse con 2 semanas de anticipación. Este pago puede realizarse a cualquiera de las siguientes cuentas:

- a) Depósito Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S.A. de C.V.
- b) Depósito Bancomer cuenta 00140651249 a nombre de Main Consultoría y Desarrollo de Sistemas S. C. o con cheque a nombre de
- c) Desarrollo y Capacitación en Internet S.A de C.V.

**Incluye:**

Creación de un proyecto real a lo largo del diplomado, material de los cursos, mochila, estacionamiento y servicio de cafetería.

# DCInternet