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ColdFusion MX Course Outline

Level 1: Fast Track to ColdFusion MX

3 Day Course - \$1,195

Topics:

Setting up the ColdFusion development environment

Using Dreamweaver MX

Publishing dynamic data using ColdFusion tags

Reusing common code

Building forms with ColdFusion MX

Building search interfaces

Building data drill-down interfaces

Accepting user information for updating and inserting data in databases

Incorporating JavaScript to perform client side validation

Securing web pages

Prerequisites:

To gain the most from this class, you should already:

A familiarity with Web terminology

An understanding of Web server characteristics

Experience with the HTML tag set and syntax

Familiarity with the SQL command set, including SELECT, INSERT, UPDATE, and DELETE

Objectives:

Upon completion of this course, students should be able to:

Set up and manage the ColdFusion MX development environment

Use ColdFusion Markup Language (CFML)

Connect to a database

Build queries that retrieve, insert, and update data dynamically

Perform client-side and server-side validation

Authenticate users and secure access to pages

Use local, query, form, and URL variables

Re-use code

Incorporate custom tags, user defined functions, and ColdFusion components into your application

Create a search form

Build a data drill-down interface

Develop fully interactive, database-driven web applications

Outline:

Unit 1: Course Overview

About the course

Course objectives

Course prerequisites

Course format

Internet Applications: The Big Picture

Unit 2: Introducing to ColdFusion MX

Advantages of dynamic pages

ColdFusion Markup Language (CFML)

ColdFusion MX Components and Features

Unit 3: Getting Started

Working with ColdFusion MX

Exploring Dreamweaver MX

Developing ColdFusion Applications

ColdFusion MX Variables

Displaying Variables

Using ColdFusion MX Functions

Commenting Your Code

Unit 4: Publishing Database Content

Connecting to a Database

Querying a Database Table

Viewing Debug Data

Displaying Database Data

Renaming Query Columns

Using the Dynamic Table Tool

Additional Information Returned with Queries

Unit 5: Reusing Templates

Reusing Code

cfinclude

Creating ColdFusion MX Mappings

Using Custom Tags

Using User-Defined Functions

ColdFusion Components

Unit 6: Building Forms with ColdFusion MX

Understanding HTML Forms

Enabling Debug Output

ColdFusion MX and Forms

Conditional Processing

Testing Submitted Forms

Evaluating Form Variables

Dynamically Populating SELECT Controls

Unit 7: Building Search Interfaces

Using Form Data in Queries

Using Multiple Search Criteria

Text Searches

List Searches

Unit 8: Building a Data Drill-Down Interface

Using Dynamic URL Parameters

Data Drill-Down

Unit 9: Inserting New Data

Building an Insert Interface

Building an Insert Form Page

Server-Side Validation

Building an Insert Action Page

Redirecting a URL

Unit 10: Updating Data

Updating Database Data

Building an Update Form Page

Pre-Filling HTML Forms

Client-Side Validation

Server- Side Versus Client-Side Validation

Building an Update Action Page

Unit 11: Maintaining Session State

Addressing the Web's Statelessness

The Application Framework

Application.cfm Variables

cflogin

Level 2: Advanced ColdFusion MX Development

3 Day Course - \$1,495

Advanced ColdFusion MX Development course provides ColdFusion application developers with the knowledge and hands-on practice that they need to build, maintain, and scale effective web applications.

Topics:

Creating advanced queries

Manipulating complex data in arrays and structures

Persisting data in the application, session, and client scopes

Building user-defined functions

Structuring applications with ColdFusion components

Reusing code with custom tags

Graphing data

Handling errors

Searching documents and record sets with Verity

Exchanging data across the Internet with cfhttp and cfwddx

Working with XML documents

Exposing and reusing application functionality as web services

Prerequisites:

To gain the most from this class, you should already have:

Completion of the Fast Track to ColdFusion MX course or equivalent experience from building ColdFusion applications

Experience developing web applications using ColdFusion for at least three months after taking the Fast Track to ColdFusion MX course

Practical experience using CFML tags, functions, and variables

Practical experience with the SQL command set, including SELECT, INSERT, and UPDATE

Objectives:

Upon completion of this course, you should be able to:

Understand, create, and manipulate complex data in queries, arrays, and structures

Persist data across pages in the application, session, and client scopes

Create user-defined functions to encapsulate commonly used functionality

Build an application with the business logic and database access encapsulated in reusable ColdFusion components

Understand how to reuse code in custom tags

Graph data with ColdFusion

Build structured exception handling within an application

Index and search both documents and record sets using the Verity search engine

Exchange data across the Internet using , , XML, and web services

Outline:

Unit 1: Introducing the Course

About the Course

Course Objectives

Course Prerequisites

Course Format

Internet Applications: The Big Picture

Macromedia Training

Unit 2: Creating Advanced Queries

The Query Object

Toolbox: .

Summarizing and Grouping Data

Transaction Processing

Querying a Query

Query Caching

Unit 3: Manipulating Data with Structures

Understanding Structures

Creating Structures

Manipulating Structures with Functions

Toolbox: Variable Naming Conventions

Looping Over Structures

Using Built-in ColdFusion Data Structures

Dynamically Evaluating Variables

Unit 4: Working with Lists and Arrays

Understanding Lists

Understanding Arrays

Manipulating Arrays With Functions

Looping Over Arrays

Combining Data Structures

Accessing Data by Value or Reference

Unit 5: Persisting Data Across Pages

Persistent Variables

Application Variables

Locking Shared Scope Variables

HTTP Cookie Variables

Session Variables

Client Variables

Toolbox: WDDX

Unit 6: Building User-Defined Functions

Introducing User-Defined Functions

Creating User-Defined Functions

Using Variables in Functions

Passing Arguments to UDFs

Storing UDFs

Unit 7: Structuring Applications with ColdFusion Components

Introducing ColdFusion Components

Creating a Static Component

Using CFC Self-Generating Documentation

Invoking CFC Methods

Instance-Based Components

Creating Instance-Based Components

Persisting CFC Instances

Unit 8: Reusing Code with Custom Tags

Understanding Custom Tags

Custom Tag Attributes

Setting Results on the Calling Page

Calling Custom Tags

Toolbox: Graphing Data with .

(Optional) Using Custom Tags With End Tags

Unit 9: Handling Errors

Introducing Error Handling

Customizing Application Error Messages

Understanding the Try/Catch Methodology

Error Handling Strategies

Unit 10: Searching with Verity

Searching Documents Using Verity

Toolbox: Self-Posting Forms

Searching Record Sets Using Verity

Comparing Document and Record Set Searching

Beyond Verity Basics

Unit 11: Exchanging Data Across the Internet

Exchanging Data over the Internet

Introducing .

Retrieving Text with .

Retrieving WDDX Packets with .

Introducing XML

Creating XML Documents

Retrieving XML Data from XML Documents

Using Web Services