

# COLDFUSION COURSE CONTENT

BY Dr. Vishwanath Rao

## Program Overview

- Introduction
- Program Objectives
- Program Prerequisites
- Program Format

## Getting Started with ColdFusion

- Basics of Dynamic Web Pages
- ColdFusion Overview
- Exploring Dreamweaver CS3
- Creating ColdFusion Variables
- Displaying Variable Values
- Including Files
- Commenting Code
- Implementing Best Practices

## Publishing Database Content

- Connecting to a Database
- Querying a Database Table
- Viewing Debug Data
- Dumping a Recordset to a Browser
- Displaying Database Data
- Using the Dynamic Table Tool
- Using the Resultset Structure Data
- Using ColdFusion Functions
- Implementing Best Practices

## Building Forms with ColdFusion

- HTML Forms and Form Controls
- Enabling Debug Output
- Self-Posting Forms
- Determining Form Submission with IsDefined()
- Evaluating Form Variables with cfparam
- ColdFusion Forms
- Implementing Best Practices

## Building Search Interfaces

- Using Form Data in Dynamic Queries
- Preserving Form Data
- Creating Dynamic SQL for Multiple Search Criteria
- Using Text Searches
- Using List Searches
- Implementing Best Practices

## Building a Drill-Down Interface

- Using Dynamic URL Parameters
- Creating a Query String
- Creating a Data Drill-Down
- Creating On-the-Fly PDF Documents
- Displaying Data in a Tabbed Interface
- Implementing Best Practices

## Inserting New Data

- Building an Insert Interface
- Building an Insert FORM Page
- Using ColdFusion Validation
- Using Client-Side Validation
- Using Server-Side Validation
- Creating Custom validation
- Building Insert ACTION Logic
- Using with INSERT
- Redirecting Process Flow

## Updating Data

- Building an Update FORM Page
- Providing the Primary Key for Update
- Building Update Logic
- Deleting Records from the Database

## Reusing Templates

- Reusing Code
- Using Custom Tags
- Using User-Defined Functions (UDFs)
- Finding UDFs
- ColdFusion Components (CFCs)
- Finding CFCs

## Securing an Application

- Addressing the Web's Statelessness
- Using the Application Framework
- Using Application Events
- Using Application Variables
- Using Session Variables

## Introduction to Components

- Creating ColdFusion Components (CFC)
- CFC Syntax
- Invoking Static CFC Methods
- Using the Application Framework
- Configuring Application Settings
- Handling Application Events
- Handling Request Events
- Locking Shared Scope Variables
- Handling Session Events

## Manipulating Lists and Queries

- Using Lists
- The Query Object
- Summarizing Group Data
- Transaction Processing
- Querying a Query

## Manipulating Data and Arrays with Structures

- Using Arrays
- Using Structures
- Using Built-In ColdFusion Data Structures
- Dynamically Evaluating Variables
- Combining Data Structures
- Accessing Data by Value or Reference

## Advanced Component Concepts

- Instance-Based Components
- Creating Dynamic Getter/Setter Proxies with onMissingMethod
- Using Built-In Components
- Prototyping Components with cfinterface

## Handling Errors and Exceptions

- Error Handling
- Customizing Application Error Messages
- Application-Wide Error Handling

- Handling Exceptions with Try/Catch
- Exception Handling Frameworks

#### Code and Content Reuse

- Creating Custom Tags
- Using Custom Tag Attributes
- Setting Results on the Calling Page
- Calling Custom Tags
- Creating CFML Simple Nested Custom Tags
- .NET Integration with ColdFusion 9
- Creating Web Services
- Calling Web Services

#### Working with PDF Files and Forms

- Generate PDF Files from ColdFusion
- Manipulating PDF Files with cfpdf
- Pre-filling PDF Forms
- Posting Data from a PDF Form to ColdFusion

#### Data and File Manipulation in ColdFusion 9

- Manipulating Image Data with cfimage
- Reading and Storing Image Data
- Image Processing
- Creating RSS Feeds
- Consuming RSS with CFFEED

#### Scaling Applications

- Scalability Bottlenecks
- Caching Recordsets
- Caching Generated Results with cf\_accelerate
- Caching Entire Page Results
- Using Asynchronous Process to Improve Performance