# Adobe ColdFusion level 1 beginner course outline (3-day)

**Lesson 1: Course Overview**

- About the course

- Course objectives

- Course prerequisites

- Course format

**Lesson 2: Introducing ColdFusion**

- Advantages of dynamic web pages

- Using ColdFusion Markup Language (CFML)

- ColdFusion Components and Features

- Configuring ColdFusion environments

- Creating a site with Dreamweaver CS4

- Creating local variables with cfset

- Referencing variables

- Displaying variable values using cfoutput

- Including files using the cfinclude tag

- Creating comments

**Lesson 3: Publishing Database Content**

- Understanding Relational Databases

- Using Database Drivers to connect to data sources

- Understanding the cfquery tag

- ColdFusion Administrator debugging

- Using <cfoutput> to display database data

- Using the Dynamic Table Tool

- Additional information returned with queries

- Using ColdFusion Functions


**Lesson 4: Building Forms with ColdFusion**

- Understanding HTML forms and form controls

- Enabling debug output

- Self-Posting forms

- Determining form submission with cfif and IsDefined()

- Evaluating form variables

- The cfparam tag

- Converting to ColdFusion forms

- Using cfselect


**Lesson 5: Building Search Interfaces**

- Using form data in dynamic queries

- Preserving form data

- Creating dynamic SQL

- Using multiple search criteria

- Creating a dynamic SQL statement

- Using text searches

- Using list searches


**Lesson 6: Building a Drill-Down Interface**

- Using Dynamic URL parameters

- Creating a Query String

- Dynamic URL Parameters

- Creating a data drill-down

- Data drill-down page

**Lesson 7: Inserting New Data**

- Building an Insert FORM Page

- Using ColdFusion Validation

- Using Client-side Validation

- Using Server-side Validation

- Creating Custom Validation

- Building Insert ACTION Logic

- Using cfquery with INSERT

- Redirecting Process Flow with the cflocation tag

**Lesson 8: Updating Data**

- Building an Update FORM Page

- Providing the primary key for update

- Pre-Filling HTML Forms

- Building Update Logic with cfquery

**Lesson 9: Reusing Templates**

- Reusing Code

- Using Custom Tags

- Using User-Defined Functions

- Finding UDFs

- ColdFusion Components

- Finding CFCs

**Lesson 10: Securing an Application**

- Using the ColdFusion Login Wizard

- Understanding the Login Pages

- Customizing the Login

- Using the Application Framework

- Using Application Events

- Using Application Variables

- Using Session Variables

# Adobe ColdFusion level 2 advanced course outline (3-day)

**Unit 1: Introducing the Course**

- Getting to know the course methodology and format

- Understanding the course objectives

- Understanding the course prerequisites

**Unit 2: Configuring your Application**

- Using the Application Framework

- Introducing CFC syntax

- Configuring application settings

- Handling application events

- Handling request events

- Locking shared scope variables

- Handling session events

**Unit 3: Manipulating Lists and Queries**

- Using lists

- Manipulating queries

- Summarizing and grouping data

- Transaction processing

- Querying a query

## Unit 4: Manipulating Data with Arrays and Structures

- Using arrays

- Using structures

- Using built-in ColdFusion data structures

- Dynamically evaluating variables

- Combining data structures

- Accessing data by value or by reference

## Unit 5: Building ColdFusion Components

- Reviewing ColdFusion Components

- Creating a static component

- Defining functions in components

- Invoking static CFC methods

- Using CFC self-generating documentation

- Creating instance based components

- Persisting CFC instances

- Using built-in components

- Inheriting methods, properties, and data between components

- Restricting access to component methods

## Unit 6: Handling Errors and Exceptions

- Introducing error handling

- Customizing application error messages

- Understanding the try/catch methodology

- Learning about exception handling frameworks

## Unit 7: Leveraging Code Reuse

- Writing code using <cfscript>

- Creating custom tags

- Nesting custom tags

- Using JSP tag libraries

- Calling a Java library


**Unit 8: Creating Flash Forms**

- Understanding Flash Forms

- Laying out Flash Forms

- Using data binding

- Working with a dynamic number of elements

- Setting default values for form fields

- Extending Flash Form interactivity with ActionScript

- Using <cfgrid>

- Controlling form appearance

- Extending Flash Forms with custom components


**Unit 9: Scaling Applications**

- Understanding performance, robustness, and scalability

- Effectively configuring the ColdFusion server

- Identifying scalability bottlenecks in your code

- Caching recordsets

- Using <cf_Accelerate> to cache generated page contents

- Caching entire page results

- Using asynchronous processes to improve performance

- Supporting concurrency


**Unit 10: Interfacing with External Systems**

- Retrieving data from web pages

- Retrieving external text

- Importing text into a query object

- Creating web services

- Calling external web services


**Unit 11: Using XML**

- Introducing XML

- Creating XML documents

- Application of XML: Really Simple Syndication (RSS)

- Retrieving XML data from XML documents

- Validating an XML document

- Referencing data from an XML Document object

- Transforming XML to HTML



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