



Advanced ColdFusion

Advanced ColdFusion is a three-day, hands-on course that provides you with the knowledge and practice to build, maintain, and scale effective web applications.

Target Student: This course is designed primarily for web designers who want to build and maintain dynamic and interactive web applications using ColdFusion.

Prerequisites: Fast Track to ColdFusion or equivalent knowledge.

Delivery Method: Instructor-led, classroom-delivery learning model with structured hands-on activities.

Benefits: After completing this course, you will be able to develop an application framework, manipulate complex data, build static and instance-based components and understand caching. In addition, you will be able to set up error handling frameworks and work with pdfs, file manipulation, and images.

What's Next:

Flash Rich Content Creation Add animation and user interaction to your website with graphics, text and sound effects.

Flash ActionScript teaches fundamental programming techniques, by introducing core concepts including instance names, variables, functions, properties, and methods; then proceeds through conditions, loops, event handling, and animating with ActionScript.

Dreamweaver Website Development Build a website that includes text, graphics, style sheets, tables, links, rollovers, navigation bars and forms.

Dreamweaver Dynamic Application Development Create dynamic websites that interact with users and data, and increase productivity using new coding features.

Performance-Based Objectives

Upon successful completion of this course, you will be able to:

- Create ColdFusion components.
- Use Application Framework.
- Manipulate lists and queries.
- Manipulate data with arrays and structures.
- Create instance-based components.
- Restrict access to component methods.
- Use built in components.
- Handle errors and exceptions.
- Customize application error messages.
- Create and nest custom tags.
- Incorporate .NET integration.
- Create web services.
- Work with PDF files and forms.
- Manipulate data and files.
- Manipulate image data.
- Process images.
- Cache page results and recordsets.





Advanced ColdFusion

- Introduction to Components
- Creating ColdFusion Components
- Introducing CFC Syntax
- Invoking Static CFC Methods
- Using the Application Framework
- Configuring Application Settings
- Handling Application and Request Events
- Locking Shared Scope Variables
- Handling Session Events

Manipulating Lists and Queries

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

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 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

- Introducing 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 SFML Simple Nested Custom Tags
- .NET Integration with ColdFusion 8
- 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

- Manipulating Image Data with `<cfimage>`
- Reading and Storing Image Data
- Image Processing
- Creating RSS Feeds
- Consuming RSS Feeds

Scaling Applications

- Understanding and Identifying Scalability Bottlenecks
- Caching Recordsets
- Caching Generated Results with `<cf_accelerate>`
- Caching Entire Page Results
- Using Asynchronous Processes to Improve Performance