



Computer Consultants Corporation

XML for Developers

Comprehensive Introduction

Length of course: 3 class days (18 hours)

Objective(s): In this course, the participant will learn to create well-formed and valid XML documents and to apply DTDs, XML Schema, and XSLT.

Prerequisites: A solid understanding of HTML and at least one web programming language.

Introduction to Extensible Markup Language

- What is XML?
- History of XML

Creating an XML Document

- Elements and Nodes
- Structure and Syntax
- Entities and Attributes
- Adding Comments
- Viewing in Internet Explorer

DTDs

- What is a DTD?
- Defining Elements
- Defining Attributes
- Setting Default Values
- Setting Attribute Types
- Defining Entities and Notation

XML Schema

- What is an XML Schema?
- Simple Types
- Complex Types
- Defining Attributes

Namespaces

- Introduction to Namespaces
- Using Namespaces
- Namespaces and DTDs
- Namespaces and Validity
- Namespaces and XML Schema

XHTML

- What is XHTML?
- XHTML vs. HTML
- Differences between XML and HTML

XPath

- Using XPath
- Location Paths
- Node Tests
- Predicates

Using Cascading Stylesheets (CSS) with XML

- Introduction to CSS
- Using CSS with HTML
- Using CSS with XML

XSLT

- How XSLT Works
- Root Templates
- Applying Multiple Templates
- Creating Nodes
- Functions
- Transforming XML to HTML with JavaScript
- Transforming XML to plain text with JavaScript
- Transforming XML to HTML with ASP
- Transforming XML to plain text with ASP

Processing XML

- Simple API for XML (SAX)
- The Document Object Model (DOM)
- SAX vs. DOM
- DOM Interfaces
- Properties and Methods
- Manipulating the DOM with JavaScript
- Manipulating the DOM with ASP

XML Linking

- XLink
- XPointer