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YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

XML Introduction / Intermediate

Duration: 2 days

Overview:

Programming systems these days are working on many different machines and using many different technologies and programming languages. XML is a modern effort employed to allow communication between all these different systems.

Aspect Training's XML Introduction/Intermediate training class provides a comprehensive introduction to Extensible Mark-up Language (XML). XML is a new technology and is a powerful language used to encapsulate data into XML files. XML is particularly useful for integrating and passing data between Business-to-Business applications or between disparate systems.

Prerequisites:

There are no prerequisites for this course. Previous use of HTML would be an advantage but is not essential.

Topics:

1 - XML Basics

What is XML?

XML Benefits

XML Documents

The Prolog

Elements

Attributes

CDATA

Whitespace

XML Syntax Rules

Special Characters

Creating a Simple XML File

2 - Quick Introduction to XHTML

XHTML vs. HTML

The DOCTYPE Declaration

XHTML Strict

XHTML Transitional

XHTML Frameset

The Document Element

A Sample XHTML Document

3 - DTDs

Well-formed vs. Valid

The Purpose of DTDs

Creating DTDs

The Document Element

Other Elements

Choice of Elements

Empty Elements

Mixed Content

Location of Modifier

Using Parentheses for Complex Declarations

Declaring Attributes

Validating an XML Document with a DTD

4 - XML Schema

The Purpose of XML Schema

The Power of XML Schema

A Simple XML Schema

Validating an XML Instance Document

5 - Simple-Type Elements

19 Primitive Data Types

Built-in Derived Data Types

Defining a Simple-type Element

User-derived Simple Types

Applying Facets

Controlling Length

Specifying Patterns

Working with Numbers

Enumerations

Whitespace-handling

Specifying Element Type Locally

Declaring Global Simple-Type Elements

Default Values

Fixed Values

6 - Complex-Type Elements

Content Models

xs:sequence

xs:all

xs:choice

Complex Model Groups

Occurrence Constraints

Declaring Global Complex-Type Elements

Mixed Content

Defining Complex Types Globally

7 - Attributes

Empty Elements

Adding Attributes to Elements with Complex Content

Adding Attributes to Elements with Simple Content

Restricting Attribute Values

Default and Fixed Values

Requiring Attributes

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