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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 TypesBuilt-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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