

XML

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Course Length: 1-days (6 hours)

Prerequisites: Knowledge of World Wide Web services and HTML

What's in XML:

This guide covers XML basics, XML components, document type definitions, XML Schema, Cascading Style Sheets, XML transformations, Linking in XML, XML APIs, XML data binding basics, XML authoring tools and an introduction to XHTML.

Topic-Level Outline

Unit 1 : XML basics

*Topic A: * Introduction to XML*

A-1: Defining XML

A-2: Exploring an XML document

*Topic B: * The evolution of XML*

B-1: Identifying the need for standards

B-2: Discussing SGML and HTML

B-3: Discussing the evolution of XML

*Topic C: * Benefits of XML*

C-1: Exploring the limits of HTML

C-2: Discussing the benefits of XML

Unit 2 : XML components

*Topic A: * Defining an XML document*

A-1: Exploring XML components

*Topic B: * Document components*

B-1: Exploring the prolog

B-2: Exploring the element hierarchy

B-3: Modifying an existing XML document

B-4: Applying XML attributes

B-5: Exploring entities and CDATA sections

B-6: Exploring well-formed and valid XML documents

Unit 3 : Schema

*Topic A: * XML Schema*

A-1: Discussing the disadvantages of DTDs

A-2: Exploring the W3C's XML schema recommendations

*Topic B: * Schema description and components*

B-1: Exploring schema description

B-2: Exploring the schema elements and namespaces

B-3: Exploring element types and compositors

B-4: Exploring attributes and cardinality

B-5: Exploring simple types and schema structures

B-6: Discussing the complex type declaration

B-7: Discussing facets

*Topic C: * Creating a schema*

C-1: Converting a DTD file to schema

C-2: Creating XML schema from scratch

C-3: Adding global components in a schema

Unit 4 : Cascading Style Sheets (CSS)

*Topic A: * CSS and XML*

A-1: Discussing CSS and XML

A-2: Linking an XML document to a style sheet

*Topic B: * CSS styles*

B-1: Discussing CSS rules

B-2: Creating CSS styles

B-3: Applying a class style and updating the DTD

Unit 5 : XML transformations

*Topic A: * Transforming XML documents*

A-1: Discussing XML transformations

A-2: Discussing XSL, XPath, and XSLT

*Topic B: * Data transformation*

B-1: Exploring the XML source document

B-2: Discussing DTD and source tree structure

B-3: Discussing XSLT stylesheets

B-4: Discussing query contexts and template rules

B-5: Discussing repetitive loops and sorting

B-6: Transforming an XML document to HTML using XSLT

B-7: Applying conditional statements and the mode attribute

B-8: Changing XML grammar with XSLT

Appendix A : XML authoring tools

*Topic A: * XML editors*

*Topic B: * Integrated development environments*

Appendix B : Introduction to XHTML

*Topic A: * Understanding XHTML*

*Topic B: * XHTML variants and DTDs*

*Topic C: * XHTML utilities*