

XML: An Introduction (Third Edition)

Course length: 1 day

Course Description

With your HTML knowledge, you have a solid foundation for working with markup languages. However, unlike HTML, XML is more flexible, allowing for custom tag creation. This course introduces the fundamentals of XML and its related technologies so that you can create your own markup language.

Course Objective: You will learn XML to create open, non-proprietary markup languages.

Target Student: A person who possesses previous HTML or other markup language experience.

Prerequisites: To ensure your success, we recommend you first take the Element K course *HTML 4.01: Level 1 (Second Edition)*, or have equivalent knowledge.

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

Performance-Based Objectives

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

- Explore the capabilities of the Extensible Markup Language and examine an environment used to develop XML documents.
- Create a well-formed XML document.
- Validate an XML document.
- Access XML documents with APIs.
- Format and transform XML documents.
- Link XML documents.

Course Content

Lesson 1: Getting Started with XML

Topic 1A: Determine When to Use XML

Lesson 2: Creating an XML Document

Topic 2A: Create XML Elements

Topic 2B: Create XML Attributes

Topic 2C: Insert XML Entities

Topic 2D: Create Additional XML Document Components

Topic 2E: Implement Namespaces

Lesson 3: Validating an XML Document

Topic 3A: Validate XML with a DTD

Topic 3B: Create a DTD

Topic 3C: Validate XML with a Schema

Topic 3D: Create a Schema

Lesson 4: Accessing XML Documents with APIs

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Topic 4A: Access an XML Document Using the Document Object Model (DOM)

Topic 4B: Manipulate XML Data Using the Simple API for XML (SAX)

Lesson 5: Formatting and Transforming XML Documents

Topic 5A: Display an XML Document Using Cascading Style Sheets (CSS)

Topic 5B: Transform XML to XML

Topic 5C: Transform XML to HTML

Topic 5D: Create an XSL-FO Document

Topic 5E: Display an XML Document Using XSL-FO

Lesson 6: Linking XML Documents

Topic 6A: Use XLink to Link to an External Document

Topic 6B: Link to External Sources Using the HTML Namespace