

XML: DTD and Schema Development

Course length: 1 day

Course Description

Welcome to the XML: DTD and Schema Development course. You have been introduced to XML and its various technologies and you worked with XML documents. XML documents with similar structures are easier to understand and maintain data. DTDs and schemas help you to validate the structure of an XML document. In this course, you will learn how to develop DTD and schema documents.

Course Objective: You will create XML validating documents using DTDs and schemas.

Target Student: This course is intended for individuals such as entry-level XML developers and analysts.

Prerequisites: Students must possess basic XML skills. To that end we recommend they take our XML: An Introduction (4th Edition) course.

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:

- Identify the basic principles of DTD design and validation.
- Create a DTD.
- Identify the basic principles of XML schema design and validation.
- Create a schema document.
- Restrict the value of XML elements.

Course Content

Lesson 1: Getting Started with DTDs

Topic 1A: Introduction to DTDs

Topic 1B: Overview of DTD Design

Topic 1C: Validate an XML Document with DTDs

Lesson 2: Creating a DTD

Topic 2A: Declare Elements in a DTD

Topic 2B: Declare Attributes in a DTD

Topic 2C: Create Entities

Topic 2D: Create Modular DTDs

Topic 2E: Validate an XML File Using JavaScript and XML DOM

Lesson 3: Getting Started with XML Schemas

Topic 3A: Introduction to XML Schemas

Topic 3B: Validate an XML Document with a Schema



Lesson 4: Creating a Schema Document

Topic 4A: Create Basic Schema Elements

Topic 4B: Add Attribute Elements to a Schema Document

Topic 4C: Create Attribute Groups

Topic 4D: Create Modular Schemas

Topic 4E: Create Additional Schema Elements

Lesson 5: Restricting the Value of XML Elements

Topic 5A: Maintain Unique Values in XML Elements

Topic 5B: Restrict Values of XML Elements with Facets

