

XML: XSL Transformations - Level 2 (Second Edition)

Course length: 1 day

Course Description

You used XSL transformations to extract data from an XML document and present it in required formats. However, most modern day tasks involve complex transformations that are performed on the server and require further expertise to handle such situations. In this course, you will learn more complex transformation concepts and their usage on the server-side.

Course Objective: You will use advanced concepts in XSLT programming.

Target Student: Entry-level XML developers and XML analysts.

Prerequisites:

- Basic XML skills (XML: An Introduction (4th Edition)).
- Knowledge of object-oriented programming principles is helpful (Introduction to Object-Oriented Programming).
- Basic XSL transformation skills (XML: XSL Transformations - Level 1 (Second Edition)).

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:

- Work with built-in XSLT functions to increase their efficiency and utilize XSLT to its full potential.
- Familiarize themselves with XSLT on the server side to transform XML documents on a server.
- Work with data islands and SVG output.
- Work with XSL formatting objects.
- Import a schema into a stylesheet to validate an XML document.
- Work with XQuery.

Course Content

Lesson 1: Working with XSLT Functions

Topic 1A: Retrieve the Current Node Using a Function

Topic 1B: Format Numbers with XSLT Functions

Topic 1C: Locate Nodes Using Functions

Topic 1D: Test Processor Support Using Functions

Topic 1E: Identify Unparsed Entities Using Functions

Topic 1F: Display Processor Details Using Functions

Topic 1G: Retrieve Data from Multiple Documents Using Functions

Lesson 2: Familiarizing Yourself with XSLT on the Server Side

Topic 2A: Understand XSLT Transformation on the Server

Topic 2B: Understand Transformation of Data Stored in a Database

Lesson 3: Working with Data Islands and SVG Output

Topic 3A: Transform an XML Data Island with XSLT

Topic 3B: Convert XML Documents into Scalable Vector Graphics



Lesson 4: Working with XSL-FO

Topic 4A: Create a Master Page to Define Formatting Properties

Topic 4B: Generate an XSL-FO Document

Lesson 5: Using the XML Schema in a Stylesheet

Topic 5A: Understand XML Schemas

Topic 5B: Transform XML by Validating XML Schemas

Lesson 6: Working with XQuery

Topic 6A: Extract Data by Using XQuery

Topic 6B: Extract Data from Multiple Sources

