

## Using XML Technologies

(3 days hands-on)

XML has become the de-facto standard way to integrate data between applications and with external trading partners. This course provides a comprehensive tour of the various XML technologies that have emerged over the last decade. The course describes how to specify XML document grammars, query XML data, link XML documents together, and transform XML documents into another format.

### Contents:

- **XML Syntax and Semantics:** XML document structure, elements, and attributes; Namespaces; Comments, processing instructions, and CDATA sections; Document design guidelines
- **Document Type Definitions (DTDs):** Overview of DTDs; Defining elements and attributes; Defining entities; DTDs and namespaces
- **XML Schemas (XSD):** Overview of XML Schemas; Defining elements and attributes; Defining simple types and complex types; XML Schema and namespaces; Using inheritance
- **Using XPath:** Overview of XPath; Using XPath in Java; Filtering results; Using XPath functions and operators
- **Using XLink and XPointer:** Overview of XLink and XPointer; XLink syntax and examples; XPointer syntax and examples
- **Using XQuery:** Overview of XQuery; XQuery FLOWR expressions; XQuery syntax; Selecting and filtering results; Using XQuery functions
- **Creating XSLT Style Sheets:** Overview of XSLT; Defining template rules; Loops and decision making in XSLT; Sorting results; Defining and calling named template rules; Parameterizing template rules
- **Managing XSLT Style Sheets:** Importing and including style sheets; Using keys; Cross-referencing documents; XSLT and namespaces
- **Using XSL-FO:** What is XSL-FO? Defining XSL-FO documents; Areas, flow, and output blocks; Lists and tables; XSLT and XSL-FO

### Who Should Attend:

This training course is aimed at developers who need to create, manipulate, and transform XML documents.

### Prerequisites:

Familiarity with XML and/or HTML document syntax.