



XML - Introduction

Duration: 2 days

This is a practical course for developers with no experience in creating and using XML documents. The course is hands-on throughout, developing skills through practical examples.

Outcomes: Following completion of this course candidates will

- Have a thorough understanding of XML and its potential uses
- Be able to create and modify well-formed and valid documents
- Be able to create simple XML Schema and be well prepared to learn additional features of the XML Schema language as required.
- Understand the most common XML related technologies and their uses.
- Be able to collaborate more effectively with specialist XML developers.
- Have a strong foundation for further learning through training or self-study.

Requirements: None. Knowledge of HTML development and/or any programming is useful but not essential

Using XML

- What is XML?
- History of markup languages
- Example uses for XML

XML File Structure

- Hierarchical Structure
- Elements, Attributes & Entities
- Declarations
- Processing Instructions
- Well-formed documents

Document modelling

- What is document modelling
- Document validation
- Applying a DTD or Schema to a file.

Namespaces

- Mixing document models
- Namespace declarations
- Examples of namespace use

Document modelling techniques

- Do I need a schema?
- Analysis of document structure
- Re-use an old schema or create a new one?
- Element or Attribute
- Context, wrapping and granularity

XML Schema Basics

- Defining Simple Elements
- Defining Complex Elements
- Defining Attributes
- Data types
- Creating reusable types

Applying XML

- XML and the web
- XML in standalone applications
- Introducing Web Services
- Introducing the Document Object Model (DOM) and Simple API for XML (SAX)
- Introducing AJAX

Introduction to other XML technologies

- Xpath
- XSL-FO and XSLT
- XLinks, XMLEvents