



Telephone: +44 (0) 117 230 2962

To book or enquire about this course, contact Nick on **+44 (0)117 230 2962**

Introduction to XML Technology

XML is increasingly becoming a critical part of many application architectures. In this training course, we will expose you to XML and the many and various technologies that surround it, such as XML Schemas, XSLT, SAX, DOM, and XPath . The training course also introduces the new Web services technology. Conygre is an education partner with Altova , and throughout the training course, we will be using the popular XML editor, XML Spy. This training course covers material required for the IBM Certified XML Developer qualification.

Duration: 1 day

Layout

The training course combines lectures with practical exercises that help the delegates to put what they have learned on the training course into practice. The exercises specifically build on what has been recently taught and are built up as the training course progresses.

Who is it for?

This training course is aimed at anyone who is experienced programming who needs to incorporate XML processing into his or her application development.

Prerequisites

- Delegates should have some appreciation for the issues involved in building large-scale applications. Delegates should also have a development background.

Objectives

At the end of this course, students should be able to:

- Read and write well formed XML
- Understand where XML can best be applied within applications
- Understand the importance of namespaces in XML applications
- Appreciate the importance of XML Schema technology and Document Type Definitions (DTD)
- Understand the purpose of XSLT, and the importance of Xpath in XSLT technology.
- Appreciate the core differences between the two XML APIs SAX and DOM, and know when to apply each.

- Understand the concept of Web services and SOAP, WSDL, and UDDI
- Appreciate some of the other emerging technologies surrounding XML.

Training Course Contents

Introduction to XML

- What is XML?
- XML Syntax
- Well formed XML
- Where XML fits into applications

XML Namespaces

- The need for namespaces
- Identifying and specifying namespace
- Working with namespace prefixes
- The default namespace

XML Schemas and DTDs

- XML Grammars
- Validating XML
- Defining XML Grammars
- XML Namespaces
- Introduction to XML Schema
- Introduction to DTD

Introducing XSLT

- Using XSLT in applications
- XSLT Anatomy
- The role of Xpath in XSLT
- Applying XSLT transformations from applications

Introducing XQuery

- The need for XQuery
- Database support for XQuery
- The XQuery FLWOR structure
- Running XQueries

Document Object Model (DOM)

- Introduction to the DOM APIs
- The anatomy of a Document Object
- Creating and manipulating Document objects

Simple APIs for XML Parsing - SAX

- The role of the SAX API
- Introduction to the SAX APIs
- Defining the SAX Content Handler
- Defining the SAX Error Handler

Web Services

- Introducing Web services concepts
- SOAP
- WSDL
- UDDI

Emerging Technology

- A look at emerging technology surrounding XML
- XLink
- XPointer
- XForms

Conygre do a range of additional courses that may be suitable for your needs. Visit <http://www.conygre.com> to find out more. Conygre also customize their courses for almost every client, so if this is not exactly what you want, then give Nick a call on 0117 230 2962.

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