

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Advanced XML: XSLT

Course Description:

This course introduces the XSLT language (eXtensible Stylesheet Language Transformations). The XSLT specification is maintained by the W3C (World Wide Web Consortium) and is a core part of the growing family of XML technologies. A related XML technology is the XPath language, which is required for using XSLT stylesheets. Students in this course will therefore learn the basic elements of the XSLT language, as well as the syntax of XPath.

Pre-requisites:

This course was designed for the student who is familiar with the general concepts involved in XML. Students should have a solid grounding in HTML. Some knowledge of basic programming concepts and/or experience with Web scripting (VBScript or JavaScript) would be helpful. Prior to taking this course, students should have knowledge to the level of the following PTR courses:

- HTML Web Authoring
- Dynamic HTML
- XML Introduction
- Introduction to Programming

Course Content:

- **Introduction to XML Output**
 - What is a Stylesheet?
 - Viewing XML Formatted with Various Stylesheets
 - Exploring an XSLT Stylesheet
 - Exploring the Differences in XSLT Versions

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Registered Office: Grenville Court Britwell Road Burnham Bucks SL1 8DF Company Registered No: 2442290 – VAT registration No:532 1929 56

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- **Basic XSLT Templates**
 - XSLT Basics
 - Creating the Outline Foundation of an XSLT Stylesheet
 - XPath Practice
 - Outputting Element Content
 - Outputting Attribute Values
 - Using HTML with XSLT
 - Formatting XSLT Output With HTML
 - Using a Simplified Stylesheet
 - Output Other Than HTML
 - Transforming XML to XML

- **Basic XSLT Templates, Part 2**
 - The Nature of XSLT Templates
 - Using `<xsl:apply-templates>` To Control Processing Flow
 - Comparing `<xsl:apply-templates>` and `<xsl:call-template>`
 - Sorting Elements in `<xsl:for-each>` and `<xsl:apply-templates>` Contexts
 - Elements, Attributes, Comments, and Text
 - Using `<xsl:element>` Elements
 - Using `<xsl:attribute>` Elements
 - Exploring the uses of XSLT Comments and Text

- **XSLT Conditional Elements**
 - If/Then Conditionals
 - Using the `<xsl:if>` Element
 - Testing Multiple Conditions
 - Using `<xsl:choose>` Elements
 - Using `<xsl:for-each>` as a Conditional
 - Filtering and Order Control with `<xsl:for-each>`

- **Advanced XSLT Elements, Part 1**
 - The Structure of XSLT Stylesheets Reconsidered
 - Importing and Including Stylesheets

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- **Advanced XSLT Elements, Part 1**
 - **Advanced XSLT Elements, Part 2**
 - **The Built-in XSLT Functions**
 - **XPath Axes and Location Paths**
 - **Server-Side XSLT Programming with ASP, XML DOM, and ADO**
 - **Data Islands and SVG Output**
 - **Appendix A: XSLT Syntax**
 - **Appendix B: XPath**
 - **Appendix C: Setting up a System DSN**
 - **Appendix D: XML to WML**
- Variables and Parameters
 - Output Options
 - Copying XML Directly to the Output Tree
 - Using Other Advanced XSLT Elements
 - General Purpose Functions
 - The document() Function
 - The Current Context Reconsidered
 - XPath Axes and Unabbreviated XPath Syntax
 - Using XSLT with ASP and the XML DOM
 - Transforming XML Obtained from a Database
 - Using XML Data Islands with XSLT
 - Converting XML Documents into SVG Graphics
 - XSLT Elements
 - XSLT Functions
 - XPath Syntax
 - XPath Axes
 - XPath Functions

Course Duration:

3 Days

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