

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: DOM

Course Description:

This course introduces the XML Document Object Model's level 1.0 specification and the Microsoft implementation of it. The DOM specification is maintained by the W3C (World Wide Web Consortium) so this course will present the core DOM as they've defined it. Microsoft, a leader in implementing the DOM in the real world, has provided numerous extensions to the core DOM, and this course will present those as well. It assumes knowledge of the basics of the emerging XML family of technologies, although a brief review is included. Students will learn the basic objects, properties, and methods of the DOM, the role the DOM plays in XML application programming, how to use the DOM in basic XML programming examples, and where the DOM seems to be headed in future versions. Example client-side code will be used for the most part, although some server-side examples using ASP and ADO will also be presented (Lesson 6). Code examples are given in VBScript, but some examples are also provided JavaScript.

Pre-requisites:

This course will review the emerging world of XML technologies. However, some familiarity with basic XML concepts would be helpful. Therefore, you should take the following courses, or have equivalent knowledge, before taking this course:

- HTML Web Authoring
- Introduction to Programming
- Introduction to XML
- Advanced XML Schema Design

A thorough knowledge of VBScript, JavaScript, DHTML, ASP, and ADO/SQL concepts and syntax would also be very helpful, but is not required for this course, as the code examples used are very simple. Code examples given in the manual are given in VBScript, and versions of some of the examples are provided in JavaScript as well.

Course Content:

- **The Emerging World of XML**
- The Rise of XML
- The XML Landscape

21a Peach Street Wokingham Berkshire RG40 1XJ

Tel 0118 979 4000 **Fax** 0118 979 4035 **Email** training@ptr.co.uk **www.ptr.co.uk**

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

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- **The General Concept of the XML DOM**
 - General XML DOM Concepts
 - The XML DOM's Interfaces
 - The XML DOM's Node Levels
- **The XML DOM Base Objects**
 - The Node Object
 - The NodeList Object
 - The NamedNodeMap Object
- **The XML DOM Higher-Level Objects**
 - The Document Object
 - The Element and Attribute Objects
- **IE5 Parser Objects and Other Microsoft Extensions**
 - The ParseError Object
 - The HttpRequest Object
 - Additional Microsoft Extensions
- **Using the XML DOM on the Server**
 - Using the XML DOM with ASP
 - Working with XML and ASP/ADO

Course Duration:

1 Days