Advanced XML

media training

enquiries@mediatraining.ltd.uk 020 7359 9855 www.mediatraining.ltd.uk

Course description

This two day course is designed for those who wish to expand their existing XML skills and utilise the full potential of XML and XSLT (Extensible Stylesheet Language for Transformation). In this course you will explore XSLT and build and maintain a site using XML and XSLT. XML is a meta-language for describing markup languages. XSLT is designed to transform your XML documents into any data format you require such as HTML, text files, PDF's, etc. The capacity of XSLT to transform XML into HTML has been the main catalyst for the rapid gain in popularity of XSLT over recent years.

This is a practical and comprehensive introduction to XML schema and XSLT and includes an analysis of the emerging technologies of SOAP.

Course information

Course duration

Two days

Course cost

Public scheduled course: £675 plus VAT per person.
This course runs as a public scheduled course on a regular basis.
Please call 020 7359 9855 or visit www.mediatraining.ltd.uk for dates.

Private course
Individual tuition: £990 plus VAT for two days of individual tuition.
Please call for costs for private groups of two or more.

Course location

We have two fully equipped training centres in central London; one is in Highbury and Islington (one stop from Kings Cross) and one next to Waterloo station.
We can also run courses onsite at your offices if you prefer.

Pre course requirements

You should have attended the Introduction to XML course at Media Training or have an equivalent working knowledge.

Post training support

The cost of the course includes lunch, course notes to take away, a certificate and six months telephone Helpline support.

Follow on courses

Search Engine Optimisation, Conforming to Accessibility Guidelines.

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DAY ONE

An overview of XML
- Well formed documents
- Valid documents
- Document modelling
- DTD and XML Schemas

XML Schema essentials
- Overview
- Using complex types
- Local and global declarations
- Annotating schemas
- Datatypes
- Built-in datatypes
- Namespaces

Defining simple types
- Date and time types
- Number types
- Deriving custom simple types
- Anonymous custom types
- Acceptable values
- Creating list types
- Predefining an element's content

Custom datatypes
- Constraining facets
- Maxinclusion
- Miniinclusion
- Fractiondigits
- Totaldigits
- Enumeration
- Minlength
- Maxlength

More custom datatypes
- List datatypes
- Union datatypes
- Simple content

Complex datatypes
- Creating a set of choices
- Ordering elements
- Defining named groups

Regular expressions
- Patterns

Questions and answers

DAY TWO

Introduction to XSL
- XSL, XSLT and XSL_FO
- XSLT processes
- Parsing a style sheet
- Transformation
- Namespace

Stylesheet structure
- Stylesheet element
- Output element
- Built-in template rules
- Xpath

Designing simple style sheets
- Outputting HTML from XML
- Outputting text from XML
- Selecting attributes
- Selecting text
- Selecting comments
- Predicates

Using Conditionals
- Filtering results
- Choose and When template rules
- For each
- Variables

Xpath functions
- Count
- Position
- Contains
- Substring

Transformation on the Client and Server
- ASP and XML
- PHP and XML
- XML editors

Emerging technologies
- SOAP
- Ajax

Questions and answers