



XML

IT PROFESSIONAL (3 DAY COURSE)

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Introduction to XML

- The Basics of XML
- History of Markup Languages
- Standard Generalized Markup Language (SGML)
- The Creation of XML
- Advantages of XML
- Common Data Storage
- When and when not to use XML

XML Structure

- Understanding XML File Types
- Platform Independence
- Difference between Binary and Text File types
- Anatomy of an XML Document
- XML Declaration
- Processing Instructions
- Proper Comments and Documentation
- Functional XML Documents
- Tools for Working with XML

Defining XML Content

- Understanding Entity References
- Using CDATA
- Standards for XML Grammar
- Creating Namespaces
- Exploring Data Type Definitions
- Applying Schemas

Applying XML

- Understanding the Document Object Model
- Exploring Today's Parser Choices
- MSXML and Expat
- Browser Support of XML
- XML Used in the Web Environment
- Client-Side and Server-Side Scripting
- XML in Stand-Alone Applications

Extending XML

- Applying Style with Cascading Style Sheets
- Applying XSL, XSLT and XPath to XML
- XSL Transforms XML
- E-Commerce using XML

Introduction to the Extensible Markup Language

- The Definition of XML
- The Document View of XML
- Working with XML Data
- Parsing, Formatting and Transforming XML
- Well-Formed XML
- XML Content Models
- Well-Formed and Valid XML

Document Type Definitions (DTD)

- The Value of Valid XML
- Associating a DTD with XML
- Defining the XML Content Model
- Content Model Cardinality
- Defining Attributes and Custom Entities
- Issues with DTD

Schemas and Namespaces

- XML Describing XML
- Built-In Data Types
- Properties of XML Data Types
- Defining Content Models Deriving Types
- XML Namespaces
- The Need for Valid XML Data

Introduction to XSLT

- The Definition of XSLT
- XLST vs. Procedural Languages
- Transformation Types
- Rule-Based and Navigational Style Sheets
- Computational Style Sheets
- Processing XSLT
- Matching XML with XPath

XML's Document Object Model

- Object-Oriented View of XML
- The XML Hierarchy
- The Levels of DOM
- Programming XML
- DOM Interfaces and Objects
- Simple API for XML (SAX)