

# Introduction to XML (1 Day)

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## **Introduction to XML (CTI 501)**

*This one-day seminar provides a detailed introduction to the eXtensible Markup Language, or XML, including basic grammar and XML validation using DTDs or XML Schema. Everything in the course is based on W3C specifications, without any vendor-specific extensions. No knowledge of any particular programming language or other external technology is required to participate.*

*Prerequisites: None. Some familiarity with HTML will be beneficial.*

*Minimum software requirements: Microsoft Windows 2000 or Linux, command-line XML tools.*

*Minimum hardware requirements for instructor's machine: Pentium 200MHz or equivalent CPU, 64 meg RAM, 50 meg disk space.*

*Microsoft PowerPoint and Internet access on instructor's machine for presentation purposes.*

### **Module 1: A Brief History of XML**

- Birth of XML
- Content vs. Presentation
- Self-Describing Data
- A Standard Document Format
- Uses for XML

### **Module 2: XML Grammar**

- Structure of an XML Document
- Handling Whitespace
- Character and Entity References
- Well-Formed XML
- Elements
- Attributes
- Processing Instructions
- Comments
- CDATA Sections

### **Module 3: Valid XML**

- Document Types
- DTD Structure
- Defining Elements
- Cardinality
- Attributes
- Required, Implied, Default, and Fixed Attributes
- Enumerations
- XML Namespaces
- Limitations of DTDs
- XML Schema
- Advantages of XML Schema
- Data Types

### **Module 4: Using XML in Applications**

- SAX and DOM Parsing
- XSLT
- Xpath
- XSL-FO
- Web Services
- SOAP