

Training: Capstone Courseware
501 Introduction to XML

| FORM OF TRAINING | MATERIALS | PRICE | DURATION |
|-------------------|-------------|---------|----------|
| Traditional | Hardcopy | 290 EUR | 1 day |
| Traditional | CTAB Tablet | 440 EUR | 1 day |
| Distance learning | Hardcopy | 290 EUR | 1 day |
| Distance learning | CTAB Tablet | 290 EUR | 1 day |

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING GOALS:

Version 1.1.1

This one-day course introduces the **eXtensible Markup Language**, or **XML**, including basic grammar and XML validation using **DTDs** or **XML Schema**. Students learn to read and to hand-write XML well-formed XML documents, and then proceed to modeling concepts, first learning the basic DTD language and then studying namespaces and XML Schema. The course closes with a chapter on important XML-related technology, including XPath, XSLT, SAX or DOM parsing, and SOAP-based Web services.

The module presents what might be called "Pure XML" - by which we mean two things. Firstly, everything in the module is based strictly on W3C specifications, without any vendor-specific extensions. Secondly, no knowledge of any particular programming language or other external technology is required to participate fully in the module. Thus the hands-on exercises, and the knowledge that is developed, are portable and applicable to any XML authoring or development effort.

CONSPECT:

- Chapter 1. A Brief History of XML
 - Birth of XML
 - Content vs. Presentation
 - Self-Describing Data
 - A Standard Document Format
 - Uses for XML

- Chapter 2. XML Grammar
 - Structure of an XML Document
 - Handling Whitespace
 - Character and Entity References
 - Well-Formed XML
 - Elements
 - Attributes
 - Processing Instructions
 - Comments
 - CDATA Sections
- Chapter 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
- Chapter 4. Using XML in Applications
 - SAX and DOM Parsing
 - XSLT
 - XPath
 - XSL-FO
 - Web Services
 - SOAP

REQUIREMENTS:

- None. Some familiarity with HTML will be beneficial.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Capstone Courseware.

TRAINER:

Authorized Capstone Courseware Trainer.