MISMO® XML Primer:
Instructor-Guided Online Course

Welcome to the *MISMO XML Primer* instructor-guided online course!

The purpose of this document is to give you an overview of the course. Below you will find some essential information about the course to get you started.

Course Purpose

This hands-on instructor-guided online course is designed for business and technology professionals who are currently (or who may soon be) involved in the consideration, planning, and/or development of a MISMO-based project. The course provides a detailed introduction to XML and Schema using examples and a walk-through of the MISMO 3.3 Reference Model. This course is intended to bridge the technical gap of business users moving from Course II (MISMO Implementation Framework – Case Study Part 1) to Course 3 (MISMO Implementation Framework – Case Study Part 2). It is also designed to assist professionals moving from an XML DTD implementation (e.g., MISMO Versions 2.X) to Schema (e.g., MISMO Versions 3.X).

Course Description

The course is presented in a blend of self-study and instructor-guided learning, all from the comfort of your own desk. The course includes live webinars, lasting two hours each, over two days. This will allow for participant interaction with the instructor and other industry experts. Course activities also include readings, homework activities, quizzes, and online discussions. Students who successfully complete the course will be issued a certificate of completion for their training transcript.

Topics include:

- What is XML?
- What are the benefits of using XML?
- Differentiating mark-up and character data from data content
- Exploring XML elements (e.g., with data; empty elements; valid / invalid elements; parent / child elements)
- How to use XML attributes to describe data properties
- Understanding XML documents including root elements, the parent and child hierarchy, processing instructions and reserved characters
- Using XML namespaces to avoid element and attribute name conflicts
- Introduction to XML schema basics including structure, root element, predefined types, complex types, sequence and choice grouping, and attributes
- Using XPATH to find information in an XML document
- Discovering XML software tools and useful features
- Introduction to the MISMO version 3.3 Reference Model
- Walk-through of the MISMO version 3.3 XML schema

Course Objectives

By the end of this course, you will be able to:

- List the benefits of using XML versus other data formats
- Differentiate mark-up and character data from data content
- Use a variety of XML element types in order to create a message
- Use XML Attributes to describe data properties
- Describe key concepts associated with XML documents
- Use XML namespaces to avoid element and attribute name conflicts
- Understand XML schema basic concepts
- Relate XML schemas to XML instance documents
- Use XPATH to find information in an XML Document
- Navigate within the MISMO version 3.3 XML schema

How It Works

To achieve a certificate of completion, participants are required to complete all course activities and participate actively in the two webinars. Students should plan to commit at least an hour between webinars to complete the assignments.

Course requirements include:

- Completing course exam with a score of 75% or higher
- Completing assigned homework

Course activities include reviewing reading materials and other online resources and participating in the online discussion board threads by the times/dates given.

Every student has the opportunity to:

- Send questions to the instructors at any time through the discussion boards
- Work with the other students directly, if desired

The instructor will:

- Lead the webinars
- Review and respond to your questions
- Review discussion board postings and provide individual feedback
- Provide guidance for completing the assignments

Course Content Contributors

We would like to thank the generous contributors to this effort:

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