

**XML Schema**

**Course Number:** XML-110
**Duration:** 2 days

**Overview**

Accelebrate's XML Schema training course gives the student who knows the fundamentals of XML a detailed introduction to the XML Schema standard for defining document type information.

**Prerequisites**

Prior knowledge of XML.

**Materials**

All XML training students receive comprehensive courseware.

**Software Needed on Each Student PC**

* A validating XML editor of your choice. We would be delighted to advise you on selecting the appropriate tool.

**Objectives**

* Declare simple-type and complex-type elements
* Derive custom types
* Declare attributes
* Annotate schemas
* Understand namespaces
* Work with multiple XML schema documents

**Outline**

* Introduction
* XML Schema Basics
	+ The purpose of XML schema
	+ The power of XML schema
	+ A first look: A Simple schema
	+ Validating an XML instance document
* Simple-Type Elements
	+ Overview
	+ Built-in simple types
	+ User-derived simple types
	+ Specifying element type locally
	+ Nonatomic types
	+ Declaring global simple-type elements
* Complex-Type Elements
	+ Overview
	+ Content models
	+ Complex model groups
	+ Occurrence constraints
	+ Declaring global complex-type elements
	+ Mixed content
	+ Defining complex types globally
* Attributes
	+ Overview
	+ Empty elements
	+ Adding attributes to elements with complex content
	+ Adding attributes to elements with simple content
	+ Restricting attribute values
	+ Default and fixed values
	+ Requiring attributes
* Reusing Schema Components
	+ Overview
	+ Element groups
	+ Attribute groups
	+ Extending complex types
* Tying It All Together
	+ Creating and reusing XML schemas
* Annotating XML Schemas
	+ Overview
	+ Annotating a schema
	+ Transforming an XML schema for documentation
* Namespaces
	+ Overview
	+ Purpose of Namespaces
	+ Target Namespaces
	+ Default Namespaces
	+ Locally declared elements and attributes
	+ Qualified locals
	+ The XMLSchema-instance Namespace
	+ Using multiple Namespaces
* Conclusion