

**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