



Schematron Training

Trainee prerequisites

The agenda below assumes that the training participants have solid experience in XML. In addition, the agenda assumes at least introductory experience with XSLT/XPath.

Day 1 (four hours): Schematron – Part I

Introduction to Schematron

- What is Schematron?
- Validation outside of grammars, with grammars
- Structure: 6 main elements
- Exercise: Environment setup outside of Oxygen
- Exercise: Hello, world
- Exercise: The basics of Schematron in Oxygen

Patterns, rules, assertions, and reports

- Patterns: Groups of rules
- Rules: Defined by context
- Assertions and reports: Grouping/categorization using the @role and @flag attributes
- Exercise: Basic DITA patterns, rules, and assertions/reports in Oxygen

Day 2 (four hours): Schematron – Part II

SVRL

- Syntax
- Generation & usage

Schematron versions

- 1.5, 1.6, and ISO Schematron
- ISO Schematron 2016

Schematron with CCMS integration

- Complexities in how Schematron rules are managed in a combined CCMS/Oxygen environment

SCH and Oxygen

- Support for SCH in Author view
- Integrating into customizations

- Editing and managing Schematron in Oxygen
 - Custom behavior around grouping/categorization of assertions and reports
- Exercise: Bulk DITA validation with Schematron and Oxygen

Day 3 (four hours): SQF and advanced Schematron – Part I

Schematron Quick Fix

- Basic syntax
 - Operations
 - Additional elements
 - Oxygen support
 - * UI
 - * Content completion
 - * Editing and managing SQF in Oxygen
 - * Quirks and support
- Exercise: Basic SQF fixes in Oxygen

Advanced Schematron

- Properties
 - Variables
 - Abstract patterns
 - Flags and roles
 - Multiple documents
- Exercise: Multiple document processing
Exercise: Variables and properties
Exercise: Abstract patterns and is-a

Day 4 (four hours): SQF and advanced Schematron – Part II

Advanced SQF

- Variables
 - use-for-each, call-fix
 - Examples & use cases
 - Global vs local & managing SQF rules
 - SQF best practices
- Exercise: use-for-each

Schematron localization

- Messages
- SQF localization

Schematron & DITA

- In OOTB Oxygen DITA plugin
- Map processing

Day 5 (four hours): Overflow and Resource Review/Examples

Overflow from Days 1-2
Resources review and examples
Wrap-up and final Q&A