



# HL7 FHIR and Touchstone Training

## Day One Agenda

Class begins promptly at 9:00am and will conclude by 5:00pm.

### Session 1: FHIR Overview

- A. Understand the basics of the FHIR specification
- B. Understand how to navigate through the FHIR specification website
- C. Present the FHIR Testing framework
- D. Introduce Touchstone: user registration, account setup, test system setup, test execution and results
- E. Comprehend and understand the TestScript resource
- F. Learn how Touchstone provides an environment for Test Driven Development (TDD)

### Session 2: FHIR Testing Framework and Touchstone Registration

- A. Present the FHIR Testing framework
- B. Introduce Touchstone:
  - I. user registration
  - II. account setup
  - III. test system setup

### Session 3: Executing Tests in Touchstone

- A. Learn how to find, setup, and execute Test Scripts in Touchstone
- B. View test execution results
- C. Review the parts of a Test Script
- D. Execute Test Scripts during hands-on exercises

### Session 4: Fixtures, Profiles, and Variables

- A. How fixtures, profiles and variables are used in operations and asserts
- B. Facilitate reliable and repeat testing
- C. Demonstrated Test Scripts using a Patient resource using these features

### Session 5: Dynamic Fixtures, and Asserts

- A. How to use placeholders in Touchstone
- B. Dynamic fixtures
- C. Variations of asserts



# HL7 FHIR and Touchstone Training

## Day Two Training Agenda

Class begins promptly at 9:00am and will conclude by 4:00pm.

### Session 1: Testing Setup in Touchstone

- A. Understand the parts of a TestScript that aid in utilizing best practices in Touchstone
- B. Learn how to incorporate setup and teardown sections into TestScripts
- C. Discuss testing strategies
- D. Learn the checklist items to know BEFORE your organization embarks on testing with Touchstone

### Session 2: Complex Asserts

- A. Understand how to identify 'what' is being tested to determine the best way to test
- B. Review which operators can be used in asserts
- C. Identify the appropriate use of rules and rulesets
- D. Discuss FHIRPath expressions and how they can be used in complex asserts to allow conditional logic in asserts
- E. Identify the kinds of workflows that require complex asserts and ways to test those encounters

### Session 3: Test Systems

- A. Gain an understanding of how Test Systems are defined in Touchstone and how to use those definitions in testing
- B. Understand how to use Touchstone for Client Side Peer-to-Peer Testing

### Session 4: Conformance and Test Execution Analysis

- A. Understand how AEGIS Touchstone can aid in determining how conformant your system(s) are to the FHIR specification
- B. Gain a deeper understanding of AEGIS Touchstone Conformance analytics capabilities