HL7 FHIR and Touchstone Training
Day One Agenda

9:00am – 12:00pm and 1:00pm - 5:00pm ET

Class begins promptly.

Session 1: FHIR Overview

    A. Understand the basics of the FHIR specification
    B. Understand how to navigate through the FHIR specification website
    C. Introduce Touchstone: user registration, account setup, test system setup, test execution and results
    D. Comprehend and understand the TestScript resource

Session 2: FHIR Testing Framework and Touchstone Registration

    A. Present the FHIR Testing framework
    B. Introduce Touchstone

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: Placeholders, Dynamic Fixtures, and Asserts

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

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Day Two Training Agenda

Session 1: Testing Setup in Touchstone

    A.   Understand the parts of a TestScript that facilitate best practices in Touchstone
    B.   Learn how to incorporate setup and teardown sections into TestScripts

Session 2: Complex Asserts

    A.   Understand how to identify testing assertions
    B.   Identify operators to be used in asserts, and appropriate rules and rulesets
    C.   Discuss FHIRPath expressions

Session 3: Test Systems

    A.   Learn how Test Systems are defined 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

Session 5: TestScript Authoring

    A.   Review 'Real World' Test Scenarios
    B.   Document test steps and map them to a TestScript
    C.   Learn to upload your own scripts to the 'Sandbox'

Session 6: Touchstone API Overview

    A.   Learn the 6 Touchstone APIs
    B.   Discuss suggested practices around implementation
    C.   Share tests and testing strategies