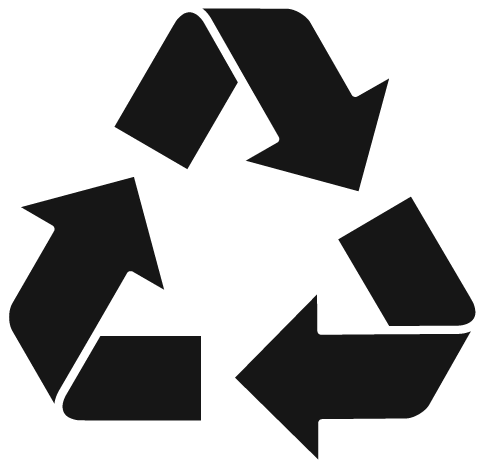
**HL7 EVENTS ARE GREEN!**

**Bring Your Laptop to Your Tutorials and Your Certification Exams!** To reduce HL7’s carbon footprint, its meetings are now largely paperless. HL7 no longer provides printed tutorial materials on-site. All materials will be distributed electronically to tutorial participants with a provided flash drive that will be distributed on site. It is important that you bring your laptop to this meeting for all tutorials. Free WiFi internet access will also be provided.

**HL7 and Meaningful Use**

The US Federal Regulations require that certified EHRs utilizing specified health information technology (HIT) standards be used when satisfying meaningful use criteria to receive Medicare and/or Medicaid incentives and avoid penalties. Healthcare interoperability is viewed as a critical part of meaningful HIT, allowing for information sharing across the continuum of care. Several HL7 standards and implementation guides as well as related vocabulary standards are referenced in the standards regulation to support EHR healthcare interoperability functions. This workshop has been designed by the HL7 Education Work Group for those interested in learning more about implementing HL7 in the context of Meaningful Use.

**HL7 Version 2.x and Meaningful Use Track**

**Tuesday – Wednesday, November 5-6 / 8:30 am – 5:30 pm**

HL7 Version 2 appears in the Stage 1 regulations as a means for facilitating the communication of immunizations and other public health data. While not specified in the initial rule, it is the de facto standard for communication of lab results, clinical orders, and patient demographics — all necessary elements in the meaningful use of health information technology.

**This Track Will Benefit:**

* Those having limited or no experience with HL7 or those new to HL7 who need to implement HL7 Version 2.x messaging for Meaningful Use rules compliance

**Upon Completion of This Track, Students Will Know**:

**HL7 Version 2.x Base Standards**

* What is HL7?
* Paradigms: messages, documents, services. Profiles, transport, content, and vocabulary
* Basic concepts: messages, documents, services, transport, content, and vocabulary
* HL7 Version 2.x main chapters: admission, observations, and orders
* Which message to use and when
* HL7 Version 2.x messages from the inside out: data types, fields, and segments
* Version 2 implementation guides
* Need for implementation guides and what comprises an implementation guide
* Implementation guide examples and how to create an implementation guide

**HL7 Version 2.x and Meaningful Use**

* Meaningful use requirements (short/long term) related to HL7 Version 2.x standards
* HL7 guides for reportable laboratory results and immunization messages: use cases, message types, vocabulary, caveats
* HL7, meaningful use and vocabularies

**Faculty:**

*Brett Marquard:* Co-Chair, HL7 Structured Documents Work Group; Principal, River Rock Associates

**HL7 CDA® Release 2 and Meaningful Use Track**

**Tuesday – Wednesday, November 5-6 / 8:30 am – 5:30 pm**

The HL7 C-CDA® an implementation guide of the Clinical Document Architecture was referenced for data portability, transitions of care, view download and transmit to 3rd parties and clinical summary requirements for meaningful use stage 2 certification. The focus of the course will be to provide hands on experience with CDA, enabling participants working in small teams, to create CDA document instances, starting with simple examples, and working towards creation of full C-CDA documents. Along the way we will review concepts related to interoperability, overview the CDA standard including its data types, header elements, narrative constructs, and reference the constraint specifications in the C-CDA implementation guide to create conformant C-CDA documents.

**This Track Will Benefit:**

* Those having limited or no experience with HL7 or those new to HL7 or CDA who need to implement CDA Release 2 documents for Meaningful Use rules compliance

**Upon Completion of This Track, Students Will Know:**

**HL7 CDA Release 2 Base Standards**

* What is HL7
* Paradigms: messages, documents, services
* Basic concepts: Messages, documents, services, transport, content, and vocabulary
* HL7 CDA Release 2 use cases and scenarios
* CDA Release 2 data types
* CDA Release 2 structure: body, header
* Clinical statement: CDA Release 2 entries. CDA Release 2 constraining: implementation guides

**HL7 CDA Release 2 and Meaningful Use**

* Meaningful use requirements (short/long term) related to CDA Release 2 standards
* CDA templates and C-CDA, including CCD templates
* HL7, meaningful use and vocabularies

**Faculty:**

*Calvin Beebe*: Co-Chair, HL7 Structure & Semantic Design Steering Division – HL7 Technical Steering Committee; Co-Chair, HL7 Structured Documents Work Group; Co-Editor, CDA; Technical Specialist, Information Services, Mayo Clinic – Rochester, MN

**HL7 Fast Healthcare Interoperable Resources (FHIR) Track**

**Tuesday – Wednesday, November 5-6 / 8:30 am – 5:30 pm**

FHIR is HL7’s newest standards family and has received considerable attention due to its focus on ease of implementation and use of off-the-shelf web technologies. Now published as a DSTU, FHIR is starting to be leveraged by many projects

HL7 Version 2 appears in the Stage 1 regulations as a means for facilitating the communication of immunizations and other public health data. While not specified in the initial rule, it is the de facto standard for communication of lab results, clinical orders, and patient demographics — all necessary elements in the meaningful use of health information technology.

**This Track Will Benefit:**

* Those who will be directly implementing FHIR interfaces as well as architects and project leads who will be making decisions about where/how FHIR might be used within an organization. Familiarity with XML or JSON and some background in software development is recommended. (Hands-on exercises will be easier if attendees have an XML or JSON editing environment)

**Upon Completion of This Track, Students Will Know**:

* What is HL7 FHIR?
* How do I navigate the FHIR specification?
* How does FHIR compare to other HL7 standards (v2, v3, CDA, etc.)
* What are the target implementation environments for FHIR?
* What are resources and how are they structured?
* How can FHIR’s RESTful interface be used to manage and query resources?
* How are the document, messaging and services paradigms supported by FHIR?
* Advanced FHIR topics such as contained resources, order/order response, operation outcome, etc.
* What are some of the architectural strategies that can be used for FHIR solutions?
* How can the FHIR libraries be used to jumpstart the development of FHIR applications?

**Faculty:**

*Lloyd McKenzie:* Co-chair, FHIR Management Group; Co-Chair, HL7 Modeling & Methodology Work Group; Member, FHIR Editorial Team; Consultant, Gordon Point Informatics

**Version 2.7 Control Specialist Certification Test Review**

Thursday, November 7 / 9:00 am – 12:30 pm

This tutorial reviews the message definition and processing rules and data type definitions of the Control chapters of the HL7 Version 2.7 standard. Upon completion of this tutorial, students will be better prepared to take the HL7 Version 2.7 Control Specialist Certification Test.  Note that students are also expected to prepare for the test by previous study of Chapter 2 (Control), Chapter 2A (Data Types) and Chapter 2B (Conformance) of the HL7 Version 2.7 standard.

**This Tutorial Will Benefit:**

* Anyone preparing for the HL7 Control Specialist Certification Test
* Interface analyst specialists and managers who need to understand the technical aspects of HL7 interfaces

**Faculty:**

*Brett Marquard: Co-Chair, HL7 Structured Documents Work Group; Principal, River Rock Associates*

**CDA Specialist Certification Test Review**

Thursday, November 7 / 9:00 am – 12:30 pm

Upon completion of this tutorial, students will be better prepared to take the CDA Certification Test.

**This Tutorial Will Benefit:**

* Anyone preparing for the CDA Certification Test
* System analysts or clinical application developers wanting in-depth understanding of the CDA Release 2 standard

**Prerequisites:**

* Participants are encouraged to carefully read the CDA Release 2 standard
* Introduction to Version 3 (Part 1) as well as the CDA Introductory and Advanced tutorials are strongly recommended

**Faculty:**

*Calvin Beebe*: Co-Chair, HL7 Structure & Semantic Design Steering Division – HL7 Technical Steering Committee; Co-Chair, HL7 Structured Documents Work Group; Co-Editor, CDA; Technical Specialist, Information Services, Mayo Clinic – Rochester, MN

**HL7 Version 2.7 Control Specialist Certification Test**

Thursday, November 7 / 1:30 pm – 3:30 pm

Health Level Seven is pleased to offer certification testing on HL7 Version 2.7, Chapter 2: Control. Certification testing is offered to those industry participants who are expected to have a working knowledge of the HL7 Messaging Standard. Interface analysts, healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates. The knowledge required to pass the test can be obtained by participation in the HL7 working group meetings, by attending HL7 education sessions, by field work dealing with HL7 interfaces, or simply by self-study of Chapters 2, 2A and 2B of the HL7 Version 2.7 standard (the standard may be obtained via HL7 membership or non-member purchase on www.HL7.org).

Note: You will need to bring your laptop to take the exam. We have changed to online certification.

**Note:** Simply taking the courses offered at this summit will most likely not be sufficient to pass the test. We strongly recommend a combination of the aforementioned to fully prepare yourself for the test.

**HL7 CDA Specialist Certification Test**

Thursday, November 7 / 1:30 pm – 3:30 pm

Health Level Seven is pleased to offer certification testing on HL7 CDA Release 2. Certification testing is offered to those participants who want to demonstrate that they have a working knowledge of the CDA Release 2 standard. Healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates.

The knowledge required to pass the test can be obtained by attending HL7 education sessions, by field work dealing with HL7 CDA based applications, or simply by self-study of the HL7 CDA Release 2 Standard. Please refer to the Study Guide on the HL7 Training and Certification page of the HL7 website for details on the content covered by the test.

Note: You will need to bring your laptop to take the exam. We have changed to online certification.

**Note:** Simply taking the courses offered at this summit will most likely not be sufficient to pass the test. We strongly recommend a combination of the aforementioned to fully prepare yourself for the test.

**HL7 Version 3 RIM Certification Test**

Thursday, November 7 / 1:30 pm – 3:30 pm

Health Level Seven is pleased to offer certification testing on the HL7 Version 3 Reference Information Model (RIM) 2.11 (the version of the RIM on Version 3 Normative Edition 2006). Note that the RIM is the foundational base of all Version 3 artifacts. Certification testing is offered to those industry participants who are expected to have a working knowledge of the HL7 Version 3 RIM or its derived artifacts. Interface analysts, healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates.

The knowledge required to pass the test can be obtained by self study of the RIM and its associated normative structural vocabulary as well as through participation in the HL7 working group meetings, HL7 education sessions, and field work implementing HL7 Version 3 artifacts. Please refer to the Study Guide on the HL7 Training and Certification page of the HL7 website for details on the content covered by the test.

Note: You will need to bring your laptop to take the exam. We have changed to online certification.

**Note:** Simply taking the courses offered at this summit will most likely not be sufficient to pass the test. We strongly recommend a combination of the aforementioned to fully prepare yourself for the test.