Transforming Healthcare with FHIR
January 30, 2020 | 1 hour (webinar)

This free webinar will provide a non-technical overview of HL7 International and its most recent standard HL7 FHIR (Fast Healthcare Interoperability Resources), a standard that has ignited the transformation of the digital healthcare development ecosystem. Community involvement in the development of the standard will also be highlighted.

INSTRUCTOR
Matt Blackmon: HL7 FHIR Proficient Pioneer; Testing Programs Engineer Supporting the eHealth Exchange, The Sequoia Project

FHIR for Clinicians, Managers & Executives
March 24–25, 2020 | 3 hours (online class)

This class is aimed at clinicians and decision makers rather than the technical user. It is an overview of where HL7 FHIR fits in the healthcare interoperability space and introduces FHIR concepts. Participants will learn how FHIR can benefit their organizations and be able to articulate those benefits to others.

INSTRUCTOR
David Hay, MD: Co-Chair, HL7 FHIR Management Group; Chair Emeritus, HL7 New Zealand; Product Strategist, Orion Healthcare

Introduction to FHIR
February 25–26, 2020 | 3 hours (online class)

This is an introductory class on HL7 FHIR. It will explore the main principles underlying the FHIR methodology, explain the relationship between FHIR and other HL7 standards such as Version 2 (V2), Version 3 (V3) and Clinical Document Architecture (CDA®), and help determine if, when, where and how an organization might implement FHIR.

INSTRUCTOR
Rik Smithies: Consultant, NProgram Ltd.; Technical Chair, HL7 UK; HL7 International Co-Chair (Clinical Statement); Member, HL7 Standards Governance Board

Clinical Quality & Decision Support on FHIR
April 7–8, 2020 | 3 hours (online class)

Clinical quality improvement is an important aspect of healthcare delivery and relies on the ability to both measure and influence clinical care. This class will look at how the FHIR Clinical Reasoning Module can be used to share computable clinical knowledge and how that knowledge can be incorporated in a continuous quality improvement cycle.

INSTRUCTOR
Bryn Rhodes: Editor, Clinical Reasoning Module in FHIR; Co-Chair, HL7 Clinical Decision Support Work Group; Member, CDS Hooks PMC; Principal, Dynamic Content Group

Introduction to FHIR for Software Developers
March 18–19, 2020 | 3 hours (online class)

Designed for software developers, team leads and infrastructure architects, this class will take an in-depth look into the infrastructure sections of the HL7 FHIR specification. In addition, participants will gain insight on how to design, develop and test software that uses the FHIR interoperability standard—all the way from the wire-format up to validation and storage.

INSTRUCTOR
Jean Duteau: Co-Chair of HL7 Modeling & Methodology Work Group; Co-Chair of HL7 Pharmacy Work Group; Member, Technical Services Committee; Director, Duteau Design, Inc.

*Classes recorded and available at HL7 On Demand
www.pathlms.com/HL7
FHIR for Architects
April 21–22, 2020 | 3 hours (online class)
Participants will understand where and how FHIR might fit into their healthcare interoperability environment and will gain tools to make judgments about when or if FHIR might be an appropriate solution for their healthcare IT requirements.

INSTRUCTOR
Lloyd McKenzie, FHL7: Co-Editor, HL7 FHIR Standard; Co-Chair, HL7 FHIR Management Group, Co-Chair, HL7 FHIR Infrastructure Work Group

FHIR Exam Prep & Proficiency Exam Package
May 5–6, 2020 | 3 hours (online class)
This package bundles the FHIR Exam Prep class with registration for the HL7 FHIR R4 Proficiency Exam. Exams can be taken up to one year after purchase. This class will assist participants in their preparation for the exam, which tests understanding of the fundamental concepts of FHIR and proficiency with the FHIR standard specification.

INSTRUCTOR
Virginia Lorenzi, FHL7: Chair, HL7 Education Advisory Council; HL7 Volunteer of the Year Award Recipient; Manager, HIT Standards and Collaborations, New York Presbyterian Hospital

FHIR for Public Health
May 27–28, 2020 | 3 hours (online class)
This class will provide an overview of the current and potential application of HL7 FHIR within the public health domain. Participants will learn public health reporting workflows, how FHIR is addressing public health use cases and how to identify potential future use cases.

SMART & CDS Hooks on FHIR
June 23–24, 2020 | 3 hours (online class)
Designed for decision makers and software engineers, this class will demonstrate how HL7 FHIR can enable EHR systems to incorporate apps, decision support and other external content to provide more configurable solutions that can be customized to support clinician needs.

INSTRUCTOR
Bryn Rhodes: Editor, Clinical Reasoning Module in FHIR; Co-Chair, HL7 Clinical Decision Support Work Group; Member, CDS Hooks PMC; Principal, Dynamic Content Group

FHIR Security & Privacy
July 15–16, 2020 | 3 hours (online class)
Participants will learn the intended use of the FHIR security and privacy mechanisms. This includes the concepts found on the security and privacy pages of the FHIR specification and a deeper discussion of the practical application of those mechanisms such as SMART, security tagging and consent.

INSTRUCTOR
John Moehrke: Co-Chair, HL7 Security Work Group; Co-Chair, IHE IT Infrastructure Planning Committee; Standards Architect, By Light Professional IT Services Inc.

FHIR Profiling
October 15–16, 2020 | 3 hours (online class)
HL7 FHIR provides a set of building blocks from which interoperability solutions can be created. Profiles combine those blocks into solutions, serving a similar purpose to implementation guides, templates, archetypes and detailed clinical models associated with other HL7 standards. This class will demonstrate how to use profiles to shape the FHIR core specification for use in a specific national, regional or organizational context.

INSTRUCTOR
Lloyd McKenzie, FHL7: Co-Editor, HL7 FHIR Standard; Co-Chair, HL7 FHIR Management Group, Co-Chair, HL7 FHIR Infrastructure Work Group

Understanding & Using Terminology in FHIR
November 12–13, 2020 | 3 hours (online class)
This class takes an in-depth look at the use of standard terminologies within HL7 FHIR's artifacts (data types, resources, profiles). The structures and use of the primary FHIR terminology resources, operations and coded data types are covered, including how these terminology artifacts and capabilities are used in support of coded elements in other FHIR resources and profiles.

INSTRUCTOR
Rob Hausam, MD, FHL7: Co-Chair, HL7 Orders and Observations Work Group; Co-Chair, HL7 Vocabulary Work Group; Vocabulary Facilitator, HL7 Orders and Observations Work Group; Principal, Hausam Consulting LLC

For more information
HL7.org/LearnNow | education@HL7.org
**HAPI on FHIR**

December 2–3, 2020  |  3 hours (online class)

This tutorial will cover HAPI FHIR (http://hapi.fhir.io/), the reference implementation of HL7 FHIR for Java developers. Topics will include working with the FHIR data model, client and server development, validation and other related topics.

**INSTRUCTOR**

*James Agnew:* Project Lead, HAPI; Chief Technology Officer, Smile CDR; Standards Advisor, Center for Global eHealth Innovation

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**Self-Paced Courses**

### HL7 FHIR Fundamentals Course

This introductory, 4-week course provides an overview of HL7 FHIR. This course features hands-on exercises on how to implement HL7 FHIR, led by expert instructors and supported by tutors.

**Participants will learn:**

- How to navigate the HL7 FHIR specification
- What HL7 FHIR resources are and how they are structured
- Business case for HL7 FHIR adoption
- Advanced FHIR topics

Prior experience with FHIR or other HL7 standards is not required. Familiarity with XML or JSON and some background in software development is recommended.

**COURSE DATES**

- April 2–April 30, 2020
- July 16–August 13, 2020
- October 29–November 26, 2020

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**HL7 FHIR Intermediate Course**

This intermediate level, 4-week course provides an overview on how to program FHIR Clients and Servers. It also features an introduction to the most relevant implementation guides in the healthcare IT market: Argonaut, IPS, SMART on FHIR and CDS Hooks. Hands-on exercises are included on how to implement HL7 FHIR, using widespread open source libraries for C#, Java and JavaScript.

**Participants will learn:**

- How to navigate the Argonaut and IPS implementation guides
- What is involved in programming a FHIR Client using Java, C# and JavaScript
- How to create a FHIR Façade to integrate a legacy application
- How to use SMART on FHIR to integrate apps with EHRs
- How to use CDS Hooks to integrate clinical decision support to an app

Prior experience with FHIR is required. Background in software development using Java, C# or JavaScript is required to complete the course assignments. Completing the HL7 FHIR Fundamentals course is highly recommended.

**COURSE DATES**

- June 4–July 2, 2020
- September 17–October 15, 2020

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**Face-to-Face Events**

**HL7® FHIR® DevDays**

June 16–18, 2020 | Cleveland, Ohio

HL7 FHIR DevDays offers a combination of focused hackathons, tutorials, keynotes and networking opportunities. Top FHIR experts from around the world will instruct, guide and discuss the further improvement of the FHIR standard.

**For more information, visit devdays.com/us/**

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*For more information*  
HL7.org/LearnNow | education@HL7.org
**V2, CDA & C-CDA**

**Live Online Classes & Webinars**

**V2.8 Exam Prep & Certification**

Exam Package

February 11–12, 2020  |  3 hours (online class)

This package bundles the Version 2 (V2) certification exam review class with registration for the HL7 V2.8 Control Specialist Certification Exam. Exams can be taken up to one year after purchase. This class will assist participants in their preparation for the exam, which tests proficiency of the Control chapter of the HL7 V2 standard.

**INSTRUCTOR**

*Virginia Lorenzi, FHL7: Chair, HL7 Education Advisory Council; HL7 Volunteer of the Year Award Recipient; Manager, HIT Standards and Collaborations, New York Presbyterian Hospital*

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**CDA Exam Prep & Certification**

Exam Package

June 2–3, 2020  |  3 hours (online class)

This package bundles the Clinical Document Architecture (CDA) certification exam review class with registration for the HL7 CDA Specialist Certification Exam. Exams can be taken up to one year after purchase. This class will assist participants in their preparation for the exam, which tests proficiency in the overall attributes of the CDA document.

**INSTRUCTOR**

*Virginia Lorenzi, FHL7: Chair, HL7 Education Advisory Council; HL7 Volunteer of the Year Award Recipient; Manager, HIT Standards and Collaborations, New York Presbyterian Hospital*

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**C-CDA 2.1**

August 3–4, 2020  |  3 hours (online class)

Every ONC-certified EHR must support Consolidated Clinical Document Architecture (C-CDA), which is a document standard for communicating patient summaries between providers and patients. This class provides a detailed background on the specification, explains how C-CDA builds on CDA to provide highly structured patient summaries and discusses implementation challenges and choices.

**INSTRUCTOR**

*Rick Geimer: Member, CDA Management Group; Co-Editor, C-CDA and Other HL7 Implementation Guides; HL7 CDA R2 Certified Specialist; Project Lead, C-CDA on FHIR; Chief Innovation Officer, Lantana Consulting Group*

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**C-CDA on FHIR**

August 5–6, 2020  |  3 hours (online class)

C-CDA on FHIR is an HL7 implementation guide that expresses the core Clinical Document Architecture (CDA) use case using HL7 FHIR resources. This class delivers an overview of FHIR documents in general, the C-CDA on FHIR profiles, and discusses migration strategies when moving from CDA to FHIR and vice-versa.

**INSTRUCTOR**

*Rick Geimer: Member, CDA Management Group; Co-Editor, C-CDA and Other HL7 Implementation Guides; HL7 CDA R2 Certified Specialist; Project Lead, C-CDA on FHIR; Chief Innovation Officer, Lantana Consulting Group*

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**Mapping V2 & CDA to FHIR**

August 18–19, 2020  |  3 hours (online class)

This class provides an overview of the relevant FHIR features which can help with a successful integration into Version 2 (V2) and Clinical Document Architecture (CDA) environments. Participants will learn advanced aspects of the FHIR specification relevant to the issue of integrating an event-driven, message-based standard with a query-driven, REST-based approach.

**INSTRUCTOR**

*Jean Duteau: Co-Chair, HL7 Modeling & Methodology Work Group; Co-Chair, HL7 Pharmacy Work Group; Member, Technical Services Committee; Director, Duteau Design, Inc.*

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**General HL7 & Other**

**Live Online Classes* & Webinars**

**HL7 Certification: Why & How**

January 7, 2020  |  1 hour (webinar)

HL7 offers certification and proficiency testing to assess the knowledge and proficiency of its most frequently used health information technology (HIT) standards. This webinar will discuss the certification exams offered as well as explain the purpose of the exams and the process for taking them.

**INSTRUCTOR**

*Virginia Lorenzi, FHL7: Chair, HL7 Education Advisory Council; HL7 Volunteer of the Year Award Recipient; Manager, HIT Standards and Collaborations, New York Presbyterian Hospital*
The Hitchhiker’s Guide to HL7 Organization, Process & Standards
January 28–29, 2020  |  3 hours (online class)
Back by popular demand, this class provides a concise overview of the history, operational framework and standards of HL7 International in a fun and easy-to-follow format. It is intended to be a guide to those seeking to engage in the HL7 standards development effort or be consumers of HL7 products and services.

INSTRUCTOR
AbdulMalik Shakir, FHL7: Principal Consultant, Shakir Consulting

Clinical Quality Language (CQL)
March 3–4, 2020  |  3 hours (online class)
Clinical Quality Language (CQL) is an HL7 authoring language standard that’s intended to be human readable. It is part of the effort to harmonize standards used for electronic clinical quality measures (eCQMs) and clinical decision support (CDS). Participants will learn about the general architecture of CQL and how it can be used with other data models such as HL7 FHIR and Quality Data Model (QDM).

INSTRUCTOR
Julia Skapik, MD, MPH: HL7 International Board of Directors; Chief Health Information Officer, Cognitive Medical Systems, Inc.

What Happens at an HL7 Working Group Meeting?
May 11, 2020 & September 14, 2020
1 hour (webinar)
This webinar explains what happens at a working group meeting (WGM). It will give those new to HL7 the lay of the land and help ensure they fully understand a WGM experience. There will be a quick meeting overview and a live Q&A session that will help attendees make informed choices.

INSTRUCTOR
Line Saele: Chair, HL7 Norway; Co-Chair, International Council; Chair, HL7 Affiliate Due Diligence Committee; Co-Chair, HL7 Patient Administration Work Group

Understanding the HL7 Organization
May 12, 2020 & September 15, 2020
1 hour (webinar)
This webinar will provide an overview of HL7 International from the governance structure to the work groups. Participants will learn the types of products that HL7 produces, subject domains that HL7 standards cover, the working group meeting format and how HL7 ballots.

INSTRUCTOR
Line Saele: Chair, HL7 Norway; Co-Chair, International Council; Chair, HL7 Affiliate Due Diligence Committee; Co-Chair, HL7 Patient Administration Work Group

HL7 Fundamentals Course
This introductory, 12-week course covers HL7 standards V2, CDA and HL7 FHIR. This is a self-paced, online course guided by real-world exercises with instructor assistance and tutor support.

Participants will learn about creating and exchanging electronic healthcare information for:
- Pharmacy orders and prescriptions
- Laboratory test orders and results
- Patient administration notifications (admission, transfer, discharge)
- Scheduling
- Continuity of care/discharge summary/referral letter/consultation notes
- Pathology/imaging reports

Prior experience in HL7 is not required.

COURSE DATES
February 13–May 7, 2020
May 28–August 20, 2020
September 10–December 3, 2020

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For more information
HL7.org/LearnNow  |  education@HL7.org
Face-to-Face Events

HL7 offers in-person training through a full schedule of tutorials and experiential learning opportunities. Event registration is required.

Working Group Meeting
May 16–22, 2020
San Antonio, Texas
HL7.me/wgm

HL7® FHIR® DevDays
June 16–18, 2020
Cleveland, Ohio
devdays.com/us/

34th Annual Plenary & Working Group Meeting
September 19–25, 2020
Baltimore, Maryland
HL7.me/wgm

Onsite Corporate Training
HL7 offers customized group training for corporate, government and academia anywhere in the world.

Held at your facility for up to 40 team members, onsite corporate training can be customized to fit your needs while ensuring confidentiality by keeping topics and focus internal.

Learn more at HL7.me/onsite

Online Training

Education On Demand
HL7’s Education On Demand is an online source for professional development and certification preparation resources. Recorded versions of all live online classes, webinars and presentations, as well as study guides and practice exams are accessible at any time.

Users can search by standard, topic or instructor. HL7 members can enjoy free access to past Member Advantage webinars as well as product discounts.

Popular Education On Demand topics include:
- HL7 FHIR Courses
- CDA Standards Training
- Path to Certification
- Certification Practice Exams
- Version 2 Standards Training

Education On Demand is available 24/7 at pathlms.com/HL7

Virtual Corporate Training
An affordable alternative to onsite training, virtual corporate training provides customized training through live webinars.

HL7 will provide qualified, knowledgeable faculty and customized material developed by our standards team. Training is tailored to focus on specific areas based on your requirements.

Learn more at HL7.org/training/virtual-corporate-training.cfm

Certification

Show the world you have standards

HL7 certification helps professionals achieve industry-recognized levels of expertise and gives employers confidence in the individual’s specialized knowledge and skills.

HL7 offers certification and proficiency testing to assess the knowledge and competence of its most frequently used health information technology (HIT) standards. Certificates and digital badges are awarded to those who pass the examinations.

Certification & Proficiency Exams:
- HL7 V2.8
- HL7 V3 RIM 2.36
- HL7 CDA®
- HL7 FHIR® (R4)

Learn more at HL7.org/certification

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