



START

HL7[®] Fundamentals

International

Introductory Online Course: HL7 Standards V2, CDA[®] and FHIR[®]
Creating and exchanging electronic healthcare information

2025

Global Release

1st Session: Starts Feb 6
2nd Session: Starts May 22
3rd Session: Starts Sep 4

Learn by Doing

The HL7 Fundamentals Course is an asynchronous, online instructor-facilitated course completed at your own pace to meet assignment deadlines. It provides opportunities to apply newly gained knowledge with a set of guided exercises for learning by practice and example.

At the end of the course, participants will be able to:

- Confront a project involving interoperability among disjointed healthcare information systems
- Read the most widely used HL7 standards
- Comprehend the need for controlled vocabularies, master files and entity registries
- Read and write V2.X messages
- Read and write CDA R2 documents
- Understand and create FHIR resources
- Decide when to use each artifact (messages, documents)

Web-Based Training

- HL7 expert teachers are working professionals who help you step-by-step
- Reading materials are developed by HL7 tutors
- Course materials are included electronically
- Discussion forums promote student engagement
- Integration activities are stewarded by the teaching team
- Self-evaluation quizzes test for comprehension
- Tutors provide evaluations for each module

Preconditions / Enrollment Priorities

- Prior experience in HL7 not required

How to Enroll

- Visit: www.HL7.org/training/HL7-fundamentals.cfm

*For Lower and Middle Income Economies as determined by the World Bank. Visit data.worldbank.org/country to view classifications

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PROGRAM

MODULE 1 – INTRODUCTION (TWO WEEKS)

- UNIT 1.1 Introduction to Healthcare Interoperability
- UNIT 1.2 Introduction to Unified Modeling Language (UML)
- UNIT 1.3 Introduction to Extensible Markup Language (XML)

MODULE 2 – HL7 V2.x (FOUR WEEKS)

- UNIT 2.1 Introduction to HL7 Version 2.x Data Types, ACK
- UNIT 2.2 HL7 V2.x: Patient Administration, Orders and Results
- UNIT 2.3 HL7 V2.x: Z-Segments, Implementation, Profiles
- UNIT 2.4 HL7 V2x.XML: XML Implementation of V2.x Messaging

MODULE 3 – HL7 CDA R2 (THREE WEEKS)

- UNIT 3.1 Introduction to HL7 CDA R2, RIM & Data Types
- UNIT 3.2 CDA R2 Architecture: Header, Body and Entries
- UNIT 3.3 CDA R2 Implementation Guides
- UNIT 3.4 CDA R2 Entries: Clinical Statement

MODULE 4 – HL7 FHIR (ONE WEEK)

- UNIT 4.1 Introduction to FHIR

MODULE 5 – PROJECT COMPLETION (TWO WEEKS)

PRICING

Non-Member	\$875
Member	\$575
Student	\$475
Middle Income Countries*	\$475
Lower Income Countries*	\$350

Group Discounts Available for Members and Non-Member Rates

Group Size	Discount
5-10 members	5%
11-20 members	10%
21-40 members	15%

INTRODUCTORY ONLINE COURSE: **HL7 STANDARDS V2, CDA[®] & FHIR[®]**

Creating and exchanging electronic healthcare information

What

An introductory asynchronous online course covering HL7 standards V2, CDA and FHIR:

- 12 topics over 12 weeks via guided real-world exercises with instructor assistance and feedback via the web with an interactive community of participating students and instructors
- A typical week includes:
 - Reading materials
 - Interaction with the instructor, tutors and peers in discussion forums
 - Application based exercises
 - Evaluation and feedback from tutors and instructor

Why

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

Who?

This course is developed for:

- Newcomers and/or those who need to know HL7 standards for their jobs in hospital, clinical, government, research, and/or public health IT environments
- People with no prior experience with HL7 standards
- Those who wish to gain an overall technical experience of HL7 standards

About HL7 International

Founded in 1987, Health Level Seven International, Inc. (www.HL7.org) is a not-for-profit, ANSI-accredited standards developing organization dedicated to providing a comprehensive framework and related standards for the exchange, integration, sharing and retrieval of electronic health information that supports clinical practice and the management, delivery and evaluation of health services.