

# COMPREHENSIVE V2 TO FHIR MAPPING COURSE

**2023**  
Global Release

1<sup>st</sup> Session: May 4 – Jun 8  
2<sup>nd</sup> Session: Sep 7 – Oct 12

## Objective

The objective of the course is to provide knowledge on HL7 Version 2 (V2) to HL7 FHIR (Fast Healthcare Interoperability Resources) mapping. Use cases, scenario analysis and hands-on exercises are used extensively in this course.

## Course Introduction

The training provides a quick refresher to core V2 concepts related to messaging and FHIR resource concepts. The course includes an in-depth analysis of mapping V2 messages to FHIR and provides hands-on assignments to practice the entire mapping process. It also showcases the conversion process using some open-source tools.

## Course Delivery

It is an instructor led and tutor assisted course. Tutors will assist in answering questions and grading assignments. Each module/session will consist of recorded lectures, reading material, subjective assignments or quizzes.

## Course Learning Outcomes

By the end of the course, participants will learn:

- V2 messaging concepts
- FHIR resource concepts
- The approach to mapping V2 messages to FHIR resources in depth through practical exercises

## Prerequisites

- Should have good knowledge of V2 standard. Course will include a high-level refresher of V2 concepts but does not teach V2 standard in depth.
- Should have good knowledge of FHIR standard. Course will include a high-level refresher of FHIR concepts but does not teach FHIR standard in depth

## Disclaimers

- Course does not cover HL7 V2 and FHIR in detail but covers only core concepts.
- Course does not cover any of the FHIR Proficiency Certification Exam concepts.
- Course does not cover conversion of V2 message to FHIR resource programmatically. Therefore, course does not require coding/programming knowledge.

## Course Assessments

- It will be a mix of quizzes and subjective assignments.
- Subjective assignments will include reading V2 messages, writing FHIR resource (in JSON) and mapping V2 data to FHIR (creating mapping sheets, validation of FHIR resources).

## PROGRAM

### WEEK 1 – V2.x Message Concepts

- ◆ Learn V2.x messaging concepts (message, segment, fields, components, delimiters, etc.)
- ◆ Using V2.x data type
- ◆ Reading the message & assignment

### WEEK 2 – Introduction to FHIR

- ◆ Introduction to FHIR
- ◆ FHIR resource concepts
- ◆ High-level overview of FHIR API, Bundle Structure & Profiling

### WEEK 3 – V2 to FHIR Mapping / Terminology

- ◆ V2 to FHIR mapping process with examples
- ◆ Explaining the mapping sheet structure
- ◆ V2 terminology mapping to FHIR
- ◆ Exercises on terminology mapping

### WEEK 4 & 5 – Hands-on Exercises / Demonstrations

- ◆ Learning complex use cases
- ◆ Mapping assignment
- ◆ Live lectures to discuss mapping assignment
- ◆ Demonstration of converting V2 message into FHIR bundle through open-source tools

## Full Course (5 Weeks)

	Non-Member	Member	Student	Other*
Individual	\$825	\$525	\$450	\$450/\$325

### Group Discounts for Members

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

\*For Lower or Middle Income Economies as determined by the World Bank. Visit [data.worldbank.org/country](https://data.worldbank.org/country) to view classifications

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## What **A comprehensive online course covering HL7 V2.x message functional mapping to FHIR Resources:**

- Five weeks of online teaching via recorded webinars along with subjective assessments at the end of each module
- There is one module released per week; during a typical week, students will:
  - Watch multiple recorded webinars and go through reading material for that module
  - Get online assistance from your instructor
  - Attend one-hour live Q&A session
  - Apply what you learn in exercises
  - Get feedback on your progress

## Why **This course is an opportunity for students to learn:**

- Functional mapping of V2 messages to FHIR in depth
- V2 message structure and the ability to comprehend it
- FHIR resource structure and the ability to write it
- Mapping V2 to FHIR documentation techniques including detailed and standard spreadsheet format for documenting message, segment, field, data type and terminology mappings
- How to use the standard V2 to FHIR mapping implementation guide

## Who? **This course is appropriate for a wide-range of HL7 users, from beginner to advanced:**

- Those who have V2 and FHIR knowledge and want to enhance their knowledge to learn mapping V2 to FHIR
- This is especially useful for engineers, business analysts, system designers, clinical SMEs and HL7 integration team members dealing with V2 messages and FHIR resources in their project work

## About HL7 International

Founded in 1987, Health Level Seven International, Inc. ([www.HL7.org](http://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.

Please contact Sadhana Alangar, PhD for any questions regarding this course at [sadhana@HL7.org](mailto:sadhana@HL7.org)