



HL7 FHIR INTERMEDIATE



2026

Global Release

1st Session: Starts Feb 12
 2nd Session: Starts May 28
 3rd Session: Starts Sep 10

Intermediate Level Course on HL7 FHIR
Creating and exchanging electronic healthcare information

Learn by Doing

The FHIR Intermediate course is an asynchronous (no live lectures) 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 developing and reviewing working software.

At the End of the Course, Participants Will be Able to:

- Understand the scope and content of the US Core and IPS IG
- Comprehend the general characteristics of a FHIR client
- Understand and modify a FHIR client in C#, Java or JavaScript
- Understand the mechanisms for FHIR servers used as API facades
- Use SMART on FHIR to connect to an EHR
- Use CDS Hooks to provide clinical decision support for an application or system

Web-Based Training

- HL7 expert teachers are working professionals who help you step-by-step
- All course materials included electronically: reading materials, videos and practical exercises
- Discussion forums promote student engagement
- Integration activities are stewarded by the teaching team
- Self-evaluation quizzes test for comprehension

Prerequisites / Enrollment Priorities

- Prior experience in HL7 FHIR is required (completing the HL7 FHIR Fundamentals course before taking this course is recommended)
- Familiarity with C#, Java and/or JavaScript is strongly recommended
- Recommended for developers only

How to Enroll

- Visit: www.HL7.org/training/fhir-intermediate.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 – IMPLEMENTATION GUIDES

- ◆ FHIR Implementation Guides: Argonaut Data Query / Provider Directory & IPS
- ◆ Development and Roadmap
- ◆ Scope, Use Cases, Guided Tour

MODULE 2 – FHIR CLIENTS

- ◆ General Guidelines
- ◆ FHIR Clients in Java
- ◆ FHIR Clients in C#
- ◆ FHIR Clients in JavaScript

MODULE 3 – FHIR SERVER

- ◆ FHIR Server Types and Patterns
- ◆ Specific FHIR Servers (FHIR Facade)
- ◆ Use Case / Scenarios / Architecture
- ◆ Where to Put the FHIR Facade
- ◆ Facade in C# / Java

MODULE 4 – SMART ON FHIR / CDS HOOKS

- ◆ SMART on FHIR Basics
- ◆ CDS Hooks Intro
- ◆ Integrating Your App with SMART on FHIR and CDS Hooks

Full Course (4 Modules)

Non-Member	\$1000
Member	\$725
Student	\$575
Middle Income Country*	\$575
Lower Income Country*	\$450

Group Discounts Available

For Members

Group Size	Discount
5-10 members	5%
11-20 members	10%
21-31+ members	15%

For Non-Members

Group Size	Discount
15-19 members	5%
20-30 members	10%
31+ members	15%



ANNOUNCING THE GLOBAL RELEASE OF HL7[®] FHIR[®] Intermediate

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FHIR: Fast Healthcare Interoperability Resource
Creating and exchanging electronic healthcare information

What

An intermediate online course covering HL7 FHIR:

- Four modules over six weeks via guided real-world exercises with instructor assistance and feedback via the web, and with an interactive community of participating students and instructors
- A typical week:
 - Study from reading materials
 - Get help from an instructor through the web via an exclusive forum
 - Apply knowledge through a variety of coding exercises (code review, build your own, architectural problems)
 - Get feedback on your progress

Why

Learn about developing FHIR clients and specific servers using open source libraries for HL7 FHIR:

- C#, Java and JavaScript
- Integrate leveraging the Argonaut and IPS implementation guides
- Understand the concepts and machinery behind SMART on FHIR and CDS Hooks

Who?

This course is recommended for:

- Developers who are already familiar with FHIR and want to delve deep into the knowledge required to use it for real world projects
- Developers with experience programming with C#, Java and/or JavaScript
- Developers who wish to gain an overall technical experience of SMART on FHIR and CDS Hooks

About HL7 International

HL7 is an ANSI-accredited, not-for-profit standards developing organization with the mission of empowering global health interoperability. With affiliates in over 30 countries, HL7's global membership envisions a world in which everyone can securely access and use the right data when and where they need it.

Please contact HL7 with any questions regarding this course at education@HL7.org