HL7® FHIR® Fundamentals

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

Learn by Doing

The HL7® FHIR® Fundamentals course is a four-week online workshop that provides an in-depth overview of HL7's newest standard Fast Healthcare Interoperability Resources (FHIR). Featuring live, hands-on exercises on how to implement HL7 FHIR, this is an ideal opportunity to apply newly gained knowledge.

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

- Read the FHIR specification and know how it is organized
- Understand the concept of resource and the different interoperability paradigms supported by FHIR
- Comprehend the use of controlled vocabularies, master files, and entity registries in FHIR
- Read and write FHIR resources
- Understand FHIR profiles and constraints and the use of extensions
- Understand the use of REST in FHIR, FHIR documents, transactions and messaging

Web-Based Training

- Instructors are HL7 subject matter experts and working professionals who help you step by step
- All course materials are available electronically
- Discussion forums promote student engagement and interaction
- Practical exercises within each module help students apply what they have learned
- Tutors provide evaluations and feedback on each module

Prerequisites

- No previous experience with FHIR or other HL7 standards is needed
- Familiarity with XML or JSON and some background in software development is recommended (exercises will be easier if participants have an XML or JSON editing environment)

How to Enroll

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

PROGRAM — ONE MODULE / WEEK

MODULE 1 — INTRODUCTION
- Why FHIR / Core principles
- Information sources
- FHIR status / Next steps
- What is a resource? Types of resources
- Key parts / Composition / Elements
- Resource reference

MODULE 2 — RESTful FHIR
- What is REST / Why REST?
- Resource identity / Metadata
- Versions / Conformance
- Create / Update / Delete a resource
- Non-CRUD operations / Search

MODULE 3 — FHIR PARADIGMS
- Transactions / Messages / Documents
- Relationship with CDA R2
- FHIR Architectural Approaches

MODULE 4 — PROFILES / CONFORMANCE
- Need for profiles / Profiling a resource
- Extension definition / Constraints
- Conformance levels

Full Course (4 Modules)

Non-Member	$975
Member	$650
Student	$525
Middle Income Country*	$525
Lower Income Country*	$400

Group Discounts for Members

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

ANNOUNCING THE GLOBAL RELEASE OF

HL7® FHIR® Fundamentals

2024
Global Release

1ˢᵗ Session: Mar 28 – Apr 25
2ⁿᵈ Session: Jul 11 – Aug 8
3ʳᵈ Session: Oct 24 – Nov 21

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What

An introductory online course covering HL7 FHIR:

- Four-week online overview of HL7® FHIR® that features guided real-world exercises with instructor assistance and online feedback, including an interactive community for students and instructors
- There is one module released per week; during a typical week, students will:
  - Study from assigned reading materials
  - Get online assistance from your instructor
  - Apply what you learn in exercises
  - Receive feedback on your progress

Why

This is an invaluable educational opportunity for students to 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

Who?

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

- Targeted at software developers and implementers
- Will benefit most those who are responsible for implementing FHIR interfaces as well as architects and project leads that make decisions about where/how FHIR might be used within an organization

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.

Please contact Sadhana Alangar, PhD for any questions regarding this course at sadhana@HL7.org