



HL7[®] FHIR[®]

FOUNDATIONAL IMPLEMENTER

EXAM PREPARATION COURSE

2025

Global Release

1st Session: Starts Mar 6

2nd Session: Starts Jun 12

3rd Session: Starts Oct 2

Overview

The Comprehensive HL7[®] FHIR[®] Foundational Implementer Exam Preparation Course is a five-week, asynchronous course that will prepare participants for taking the HL7 FHIR Foundational Implementer Exam. It covers complete content and all the aspects of the FHIR Foundational Implementer Exam. It teaches the FHIR standard practically and in detail through pre-recorded lectures, reading material, assessments, and live Q&A.

At the end of the course, participants will:

- Obtain a solid knowledge of the concepts required to pass the HL7 FHIR Foundational Implementer Exam.
- Understand the test format and types of questions found in the exam
- Apply appropriate test taking strategies to deduce the correct answers in the exam
- Have thorough knowledge of the FHIR standard including resource concepts, terminology, extensions, referencing.
- Understand Rest API, FHIR query practically using the Postman tool and publicly available FHIR test servers.
- Understand FHIR profiles and constraints including StructureDefinition. Understand how to choose and apply the profiles for use cases.
- Understand Implementation guides and how to use them.
- Understand validation errors and troubleshooting them.

Web-based training

- HL7 expert instructors who are working professionals will help you step-by-step.
- Tutors will assist in answering questions and grading exams.
- Each module will consist of recorded lectures, reading material and quizzes.
- Primarily assessments will be in form of quizzes to practice for the HL7 FHIR Foundational Implementer Exam.

Prerequisites

- Though not mandatory, it is good to have basic FHIR knowledge.
- Knowledge of JSON and XML is strongly recommended.

Disclaimers

- Course is not a substitute of any existing HL7 FHIR courses.
- Course does not guarantee passing of HL7 FHIR Foundational Implementer Exam.

How to Enroll

- Visit: www.HL7.org/training/fhir-foundational-prep.cfm

PROGRAM

Module 1: FHIR Principles and Resource Model & Structure

- ◆ What and Why of FHIR, Maturity Model, version management etc.
- ◆ Introduction to FHIR resources
- ◆ Resource elements, cardinality, flags, data types
- ◆ Resource referencing and Extensions
- ◆ Terminology - coded values, ValueSet, CodeSystem, Binding Strength

Module 2: Resource Implementation

- ◆ Resource Structure in XML and JSON
- ◆ Use existing extensions for a use case
- ◆ Use terminology for a use case

Module 3: FHIR API Behavior

- ◆ Understanding and using various Exchange Mechanisms
- ◆ REST API including conditional interactions
- ◆ FHIR query - approach, all parameter types and common parameters
- ◆ Bundles - Transactions, Messages, Documents

Module 4: Profiling and Implementation Guide

- ◆ Understanding Profiling in FHIR
- ◆ StructureDefinition
- ◆ Understanding extension definition
- ◆ FHIR operations
- ◆ Selecting, reading and using Implementation Guide
- ◆ Selecting profiles for use cases

Module 5: Troubleshooting and Validation

- ◆ Troubleshoot validation errors
- ◆ Troubleshoot the rest API server errors
- ◆ Apply profile rules to validate resource instance

Full Course (5 Weeks)

Non-Member	\$750
Member	\$500
Student	\$400
Middle Income Country*	\$400
Lower Income Country*	\$300

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

What?

A comprehensive online course covering HL7 FHIR Foundational Implementer Exam topics:

- Five weeks of online teaching via recorded webinars along with assessments at the end of each module.
- As this exam requires some hands-on understanding of the FHIR standard, this course will demonstrate exercises on resource structure, Rest API, FHIR query, bundles, and implementation guides.
- A typical week:
 - Go through recorded lectures and reading material
 - Get help in one-hour Q&A session
 - Post your questions to the course tutors
 - Practice the concepts
 - Take quizzes to practice for the exam
 - Get feedback on your progress

Why?

How to prepare for the latest HL7 FHIR Foundational Implementer Exam with a one-stop solution:

- One stop solution to prepare for the latest HL7 FHIR Foundational Implementer Exam
- Understand what HL7 FHIR resources are and how they are structured (JSON/XML)
- Learn FHIR REST API, FHIR query/search, bundles using postman and other publicly available test servers
- Understanding of the profiles and implementation guides
- Understanding of FHIR topics like extension definition, StructureDefinition, FHIR operations

Who?

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

- Targeted at software developers and implementers
- Anyone using FHIR standard and involved in implementing it
- Anyone wants to prepare for the HL7 FHIR Foundational Implementer Exam.

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.