



Clinical Information Modeling with openEHR Archetypes and Templates

the open standard for future proof health information systems



Course objectives

The main goal of this course is our students to know and gain experience in the process of clinical information modeling, the related tools and techniques, and in the formal methodology offered by openEHR, using archetypes and templates to model clinical content.

We'll see how to analyze information requirements with mind maps and object-oriented models (UML), clinical concept modeling with openEHR Archetypes, and full document modeling with openEHR Templates. This will lead us to a very detailed documentation of the models that will be used by health information systems, and a standardization of all the information that will be recorded and managed on those systems.

This approach enables interoperability from the system core, and allows a more flexible and maintainable architecture, simplifying the change management in the future.

Why this course?

All health information system projects require analysis and modeling of data structures for the clinical record. Usually this is an informal process, done without a clear and repeatable methodology, standards are not used, and custom approaches are the norm. This results in low quality information models, that can be inaccurate, incomplete and incorrect, affecting the quality of the whole system.

This course tries to disseminate a better approach for clinical information modeling, to overcome current challenges of health informatics, reaching better quality models and systems, alongside with a better management of clinical knowledge, and better management of how clinical records evolve.

Another point of the formal methodology for clinical information modeling is that it helps to reduce the costs of modifying, adapting and maintaining health information systems in the long term.

Who is this course for?

This course is of interest to any person with IT or clinical profiles, that work or want to work in health information system projects. And is a good complement to our course of openEHR Fundamentals.

Syllabus

Here you can find the course modules and the correspondent list of topics.

Module	Topics
1 Introduction	+ Motivation + Clinical modeler role + Modeling tools and techniques + Introduction to the openEHR information model
2 Archetypes & Tools	+ Modeling activities presentation + Archetype modeling process + Concept classification + Detailed data analysis + Tools: Clinical Knowledge Manager + Introduction to ADL + Tools: Archetype Editor
3 Modeling Activities	+ Building archetypes for entries + Building archetypes for compositions
4 Archetype Management & Templates	+ Archetype life cycle + Archetype modification + Archetype technical validation + Template modeling process + Tools: Template Designer + Clinical document modeling activities + Using templates in software

Modalities

This course is offered online and on-site for companies, organizations and events. To request a quote please contact info@cabolabs.com

It is also offered online with live/synchronous sessions. This modality works in established periods, generally once a year. To get notification when the next enrollment period opens, sign to the Waiting List found here: <https://www.cabolabs.com/education>

For the online editions:

- We have a virtual campus with the materials and a forum
- We have a video-conference tool to provide the live online sessions
- All the sessions will be recorded to watch later
- All the materials needed for each module will be available before the correspondent session

Certification

ACHISA and CaboLabs will deliver a PARTICIPATION certificate to all the students.

Trainer

The course will be delivered by Pablo Pazos Gutiérrez, who designed the course taking into account the openEHR specifications and summarizing years of experience working with openEHR and clinical repositories.



Bio

Pablo is a Computer Engineer from Uruguay, specialized in the eHealth domain. Director of CaboLabs: Health Information Systems, Standards and Interoperability, and creator of the courses delivered through CaboLabs with the support of ACHISA. With 12+ years of experience in eHealth, 500+ trained professionals from 16 countries.

- Computer Engineer degree, Universidad de la República, Uruguay
- Director at [CaboLabs](#) Health Informatics
- Educator at [Asociación Chilena de Informática en Salud](#)
- [openEHR Ambassador for Latin America](#)
- Coordinator at [openEHR community in spanish](#)
- Qualified Member of openEHR's programs (specification, software, localization, education)

Acknowledgements

ACHISA and CaboLabs thank Hospital Italiano de Buenos Aires for the provision of the video-conference platform that allow us to deliver this course.

**ACHISA supports knowledge dissemination in the Health Informatics discipline,
especially about the available standards and specifications.**

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Health Informatics, Standards and Interoperability