HARVARD
MEDICAL SCHOOL

Empowering Leaders for a Safer, Smarter Future

Safety, Quality, Informatics, and Leadership
Certificate Program

“The Safety, Quality, Informatics, and Leadership program at Harvard Medical School is tailored for health care leaders to gain the skills and knowledge they need to be able to solve today’s problems in health care. The program is built on the foundation of the learning health system, a framework that we use to identify problems, collect information, identify opportunities, and implement solutions that improve care in real-world settings”

Katherine Santos, MBA
Faculty Director, Safety, Quality, Informatics, and Leadership
Chief Strategy Officer, Legacy Lifecare



About the Program

Harvard Medical School’s Safety, Quality, Informatics, and Leadership program provides advanced training for health care professionals who want to improve outcomes and lead change in complex systems. This now 11-month certificate program helps participants develop the skills needed to analyze data, strengthen patient safety, and drive organizational performance.

Learners gain knowledge in quality improvement, clinical informatics, leadership, and implementation strategies that support better care delivery and reduce risk. Through practical applications and faculty-guided learning, participants build confidence to design solutions that improve patient outcomes.

Program Format

This 11-month certificate features a hybrid learning model that integrates three required multi-day workshops, live online instruction, faculty-led review sessions, collaborative group work, and an individual capstone project. Participants should expect to spend an average of 5–7 hours per week on coursework.

This hybrid-learning approach includes:

- 3 required workshops (2 live online, 1 in-person in Boston)
- Live online lectures
- Self-paced modules between workshops
- Team assignments
- Individual capstone project

For more information and to apply, visit: learn.hms.harvard.edu/sqil

Who Should Apply

The Safety, Quality, Informatics, and Leadership program is designed for health care professionals—or aspiring to—leadership roles focused on improving clinical quality and patient safety through informatics.
Past participants have included physicians, nurses, pharmacists, administrators, policy leaders, and researchers—many of whom hold leadership roles in health systems, hospitals, academic centers, or public health agencies.

Program Objectives

- Apply principles of patient safety, quality, and informatics to improve care
- Identify system barriers and opportunities for change
- Strengthen leadership, communication, and teamwork skills
- Use case-based learning to analyze and solve real-world problems

“Our participants come from around the world, representing a wide range of backgrounds and specialties—and this diversity fuels vibrant networking and meaningful professional relationships.”

Safety, Quality, Informatics, and Leadership

About the Program

This program is anchored by three workshops. In between workshops, expect 5-7 hours of work per week, which includes:

~3-4 hours of live online sessions
~4-6 hours of work at your own pace

During the first half of the program, participants can expect fewer hours of independent work. The capstone project is introduced during Workshop 2, which will increase weekly workload during the second half of the program.

Blended
This program requires attendance at three workshops — two virtually and one in-person

$15,500

Certificate
Earn a Certificate of Completion when you complete all program components

Early Deadline: May 5, 2027
Final Application Deadline: July 14, 2027

Workshop 1: August 2-6, 2027 | Live Online
Workshop 2: February 7-11, 2027 | Live Online
Workshop 3: June 26-29, 2028 | In Person, Boston, MA

Workshop 1 Topics*

- Introduction to Patient Safety
- Introduction to Quality
- Introduction to Informatics
- Introduction to Leadership

Workshop 2 Topics*

- Informatics and data science in transforming health care
- Adaptive and influential leadership skills
- Career development and advancement

Workshop 3 Topics*

- Synthesizing learnings from the program
- Establishing leadership culture
- Professional development in the healthcare industry



Sample Live Online Workshop Schedule*

*Subject to change

Time (ET)	Monday	Tuesday	Wednesday	Thursday	Friday
8:30-10:00am	Welcome and Developing a Hospital Program in Patient Safety	A Trainee Curriculum in Quality and Safety	Creating a Culture of Trust to Support Patient Safety	Human Factors of Health Care	Adaptive Health Environments
10:00–10:30am	Break				
10:30–11:30am	Basics of Clinical Databases	Clinical Design Support for Improving Quality and Safety	Architecture of Health Information Systems	Design Thinking	Capstone Project Introduction
11:30am–12:30pm	Lunch Break				
12:30–2:00pm	Introduction to Leadership	Leadership Styles	Motivating Teams	Informatics	Reflections and Adjourn
2:00–2:30pm	Break				
2:30–3:30pm	Population Health Management	Developing a Hospital Program in Quality	Continuous Quality Improvement Model	Patient Safety and Information Design	
3:30–4:30pm					
Asynchronous and Live Online Sessions held between Workshops					

For more information and to apply, visit: learn.hms.harvard.edu/sqil