

Quantum-Safe Healthcare Intensive

Practitioner intensive

A full-day workshop for health systems planning a PQC migration across patient data, devices, and clinical systems. Leave with a year-one roadmap.

Duration

8 hours

Planning workshop

Level

Practitioner

No cryptography background needed

Fee

US\$1,199 live online

US\$1,599 in person

A health system's post-quantum cryptography (PQC) migration includes patient data, medical devices, and clinical systems, and different teams usually own each one. Patient records must be retained for 10 to 30 years, depending on jurisdiction, and kept confidential for as long as they are held. Infusion pumps, monitors, and imaging workstations often contain keys burned in at manufacture, and their software is patched slowly, if at all. In this workshop, you build one migration program across all three.

What you will build

- An estate map of patient data, medical devices, and clinical systems, showing who controls each part
- A program charter and steering committee structure
- An inventory plan, with its three inventories, starting records, and order
- An initial priority list, with confidentiality horizons, device dispositions, and evidence gaps recorded
- A vendor dependency register that separates evidenced dates from assumptions, and draft contract requirements
- An external dependency map for regulators, manufacturer release dates, and partners
- A workstream structure with role and resource assumptions
- A year-one plan by quarter, with board KPIs and the decisions you need from others

Who should attend

- Program managers and PMO leads
- The CISO or CIO who will sponsor the program
- Security architects
- Biomedical and clinical engineering leads
- EHR, imaging, and laboratory system owners
- Privacy, compliance, procurement, and vendor management staff

The intensive is for hospitals and health systems. Medical device manufacturers are welcome too, and leave with a clear view of what their customers are about to ask for. We recommend sending a mixed group from one health system, ideally the people who would be members of its quantum readiness steering committee. Bring at least one person from clinical or biomedical engineering. Many of the sequencing decisions in this workshop are device decisions.

Preparation

We recommend Quantum-Safe Healthcare as preparation, though you can enroll without it. It covers the same ground at overview depth. You can work through the day with data from your own organization or with a sample health system we provide.

Why Quantum Academy

This intensive is built on the Applied Quantum PQC Migration Framework, published openly under Creative Commons at pqcframework.org. No healthcare extension of the framework has been published yet. The course author wrote the framework. The instructors run migration programs in this industry and teach the sector material from that field work.

Curriculum and enrollment

The day

The instructor starts each module with a short briefing. You then apply the module's template to your own estate or to the sample health system. In person, we teach the intensive from 09:00 to 17:00 local time, with lunch and two breaks:

09:00–09:50 • Module 1. Three estates and their owners

You map your estate by domain and mark whether your teams, a software vendor, or a device manufacturer controls each part.

09:50–10:40 • Module 2. Mandate, governance, and the business case

You define the steering committee, with clinical engineering, EHR owners, privacy, and procurement alongside security, and one accountable executive reporting to the board's risk committee.

10:40–11:00 • Break

11:00–11:45 • Module 3. Inventory planning

You start with the internet-exposed systems whose data must stay confidential past 2035, such as genomics, behavioral health, and oncology, and with long-lived trust anchors.

11:45–12:30 • Module 4. Risk scoring, priorities, and device triage

For each device family, you record whether its manufacturer will migrate it, or whether you will protect it behind a gateway, isolate it, or retire it.

12:30–13:30 • Lunch

13:30–14:20 • Module 5. Vendors and device manufacturers

You classify suppliers by how much of your timeline they control, from EHR and laboratory system vendors to device manufacturers.

14:20–15:10 • Module 6. Regulators, release dates, and partners

The instructor walks through what the HIPAA Security Rule requires today, the January 2025 proposal to update it, and FDA premarket cybersecurity expectations for new devices.

15:10–15:30 • Break

15:30–16:15 • Module 7. Program structure and staffing

You set the gates and the staffing, and the evidence each wave needs, such as a tested rollback and an agreed clinical availability window.

16:15–17:00 • Module 8. Year-one plan, KPIs, and the asks

You assemble the day's work into a year-one plan by quarter, from naming the accountable executive to changing procurement language.

Live online, we teach it in two four-hour sessions on consecutive days, each with a short break. We cover Modules 1 to 4 in the first session and Modules 5 to 8 in the second.

Formats and fees

Format	Delivery	Fee
Live online	Two four-hour sessions on consecutive days	US\$1,199
In person	One day, 09:00 to 17:00 local time	US\$1,599
Private team training	Only your own colleagues attend	Quoted per engagement

What is included

- The course handbook, a PDF of the full material with the instructor notes written out
- A PDF copy of *Quantum Ready* by Marin Ivezić, the companion book to the framework the day draws on
- The working documents you build during the day, editable and yours to keep
- 180 days of access to the corresponding online on-demand course. Where that course is not yet published, the 180 days start on the day it is.
- A Quantum Academy certificate of completion. It confirms that you completed the course and is separate from Quantum Academy's professional certifications.

Explore the course

Dates and booking: quantumacademy.com/courses/quantum-safe-healthcare-intensive/



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Prices as of October 2026.

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