

QUANTUM SECURITY & PQC

Post-Quantum Certified Specialist

PQCS TRAINING

Build the technical skills to assess cryptographic exposure and contribute to a post-quantum migration.

ON DEMAND

~40 hours

Self-paced

LIVE TRAINING

24 hours

Across four days

LEVEL

Foundational

Certification preparation

Develop practical PQC competence.

WHAT YOU WILL LEARN

- ✓ Conduct a cryptographic inventory and build a Cryptographic Bill of Materials (CBOM).
- ✓ Evaluate post-quantum algorithms and hybrid implementation approaches.
- ✓ Assess protocol dependencies and prioritize cryptographic assets for migration.
- ✓ Develop a preliminary migration roadmap and assess cryptographic agility.

WHO SHOULD ATTEND

Security professionals, IT architects, developers, systems engineers and technical consultants preparing for PQC migration work.

PREREQUISITES

Post-Quantum Foundation is required. You must hold its certificate of attendance.

Preparation for the PQCS certification

Completing training does not confer the credential. You must pass the separate exam.

What you will study

Seven modules connecting core concepts with applied professional decisions.

01 The Quantum Threat: Beyond the Headlines

Examine threats to RSA and elliptic-curve cryptography, resource estimates and timeline uncertainty. Assess exposure to harvest-now-decrypt-later and future signature-forgery scenarios.

02 NIST PQC Algorithms: Technical Assessment

Compare algorithm security assumptions, performance and key or signature sizes. Assess deployment suitability and distinguish finalized standards from algorithms still in standardization.

03 Cryptographic Inventory and CBOM

Discover cryptography across applications, protocols, certificates, key management and third-party services. Build a CBOM and use risk scoring to prioritize assets.

04 Hybrid Implementations

Evaluate hybrid key exchange and signatures, negotiation, fallback and transition planning. Work through hybrid TLS configuration using open-source libraries.

05 Protocol Migration Assessment

Assess migration requirements for TLS, SSH, IPsec, S/MIME, code signing and PKI. Identify changes, compatibility constraints and sensible migration sequences.

06 Migration Planning and Prioritization

Turn an inventory into a risk-based roadmap. Define pilots, validation, vendor dependencies and rollback plans for a realistic migration scenario.

07 Cryptographic Agility

Assess algorithm agility at application, protocol and infrastructure levels. Identify architecture patterns and test whether systems can change algorithms with bounded effort.

Applied learning

Apply the PQC Migration Framework to discovery, prioritization and a realistic migration roadmap. Quantum Academy teaches the course through practitioners running migration programs.

Plan your participation

Training formats and fees

Online on-demand	US\$1,999
Live online	US\$2,499
In person	US\$2,999
Private team training	Custom quote

Live online and in-person delivery: four days, six hours of instruction per day. On-demand delivery: approximately 40 hours at your own pace.

Includes a certificate of attendance. This is a course completion record, not a professional certification.

Included with training

- Course handbook with the full material and written instructor notes.
- PDF copy of Quantum Ready by Marin Ivezic, included at no extra cost.
- 180 days of online on-demand access. Where that course is not yet published, the 180 days start on the day it is.

Training and exam options

On-demand + exam	US\$2,399
In-person + exam	US\$3,399
Exam only	US\$599

Foundation to PQCS bundle

Foundation + training + exam: online US\$2,649; in person US\$3,999.

The PQCS exam

100 questions: 90 scored + 10 unscored pilot items.

150 minutes; closed book; proctored.

Multiple-choice and scenario questions.

Passing score: 700 on a 100-900 scale.

Plan 20-40 hours of independent study in addition to the course.

After certification

After PQCS, specialize through PQCM, PQCA or PQCX. Hold all three active specialist credentials to qualify for PQCX.

Three-year validity. US\$149 annual maintenance covers all active Quantum Academy credentials. See the [credential page](#) for renewal and exam terms.

Explore dates and enrollment

View the PQCS program at QuantumAcademy.com



On-demand enrollment opens soon. Check the course page for live dates and availability.

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Prices: September 2026; applicable taxes are shown at checkout. Quantum Academy credentials are private professional credentials of Post-Quantum Institute, not government-issued licenses, accredited degrees or academic credit. No employment, promotion, regulatory approval or specific outcome is guaranteed. Programs are educational and informational only, not legal, compliance or engineering advice.