

QUANTUM SECURITY & PQC

Post-Quantum Certified Validator

PQCV TRAINING

Verify that post-quantum implementations meet functional, security, performance and interoperability requirements.

ON DEMAND

~40 hours

Self-paced

LIVE TRAINING

24 hours

Across four days

LEVEL

Specialized

Certification preparation

Build evidence for migration assurance.

WHAT YOU WILL LEARN

- ✓ Design a PQC verification strategy with clear scope and acceptance criteria.
- ✓ Test hybrid implementations under normal and adversarial conditions.
- ✓ Assess downgrade resistance, interoperability and certificate-chain behavior.
- ✓ Benchmark performance and produce evidence for migration sign-off.

WHO SHOULD ATTEND

Security testers, penetration testers, QA engineers, auditors, consultants and architects responsible for PQC validation and acceptance.

PREREQUISITES

Active Post-Quantum Certified Specialist (PQCS) certification is required.

Preparation for the PQCV 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 PQC Test Strategy Design

Define test scope, coverage, resources and acceptance criteria. Align verification activities with migration phases, governance and evidence requirements.

02 Functional and Correctness Testing

Validate key generation, encapsulation, signing and verification. Check parameters, boundary conditions and conformance to the relevant algorithm specifications.

03 Downgrade Attack Testing and Negative Testing

Test adversarial negotiation, fallback and algorithm stripping. Verify that classical-only connections are rejected where policy requires post-quantum protection.

04 Interoperability Testing

Check libraries, vendors, clients, HSM versions and certificate chains. Build regression approaches for interoperability during the transition.

05 Performance Validation

Establish baselines and measure handshake latency, resource use and overhead under representative workloads. Compare results against service requirements.

06 Security Validation

Assess key handling, randomness, patch status and implementation weaknesses. Evaluate resistance to known side-channel attack patterns.

07 Evidence, Compliance, and Sign-Off

Organize test results into evidence dossiers. Define acceptance, conditional sign-off and ongoing assurance processes for the migrated environment.

Applied learning

Connect technical tests to the evidence a migration program needs for acceptance. Quantum Academy teaches the course through practitioners working on enterprise PQC migrations.

Plan your participation

Training formats and fees

Online on-demand	US\$2,499
Live online	US\$2,999
In person	US\$3,499
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 completion. This is 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\$2,999
In-person + exam	US\$3,999
Exam only	US\$699

Training-only fees exclude the exam. Select a bundle to include the certification assessment.

The PQCV exam

120 questions: 110 scored + 10 unscored pilot items.

180 minutes; closed book; proctored.

Multiple-choice and scenario questions.

Passing score: 700 on a 100-900 scale.

Plan 30-50 hours of independent study in addition to the course.

After certification

Extend into PQC Vendor Governance and PQC for GRC. Active PQCM, PQCA and PQCV together 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 PQCV 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.