

QUANTUM SECURITY & PQC

Post-Quantum Certified Architect

PQCA TRAINING

Design post-quantum migration solutions across algorithms, protocols, PKI and enterprise cryptographic architecture.

ON DEMAND

~40 hours

Self-paced

LIVE TRAINING

24 hours

Across four days

LEVEL

Specialized

Certification preparation

Design the cryptographic transition.

WHAT YOU WILL LEARN

- ✓ Map cryptographic dependencies, trust relationships and architectural constraints.
- ✓ Select algorithms and hybrid approaches for specific deployment requirements.
- ✓ Design migration patterns and PKI transition architectures.
- ✓ Build cryptographic agility and document decisions for implementation teams.

WHO SHOULD ATTEND

Security and enterprise architects, senior security engineers, cryptography engineers and technical leads designing PQC migration solutions.

PREREQUISITES

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

Preparation for the PQCA 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 Cryptographic Architecture Assessment

Map cryptographic usage, key management, trust anchors and cross-system dependencies. Identify legacy, operational and interoperability constraints that shape migration design.

02 Algorithm Selection for Specific Contexts

Compare security assumptions, performance, bandwidth and implementation complexity. Select algorithms for enterprise and constrained deployment contexts.

03 Hybrid Implementation Design

Assess hybrid key exchange, signature schemes and dual-certificate strategies. Design negotiation and fallback behavior with security and operational requirements in view.

04 Migration Pattern Selection

Compare in-place upgrades, parallel deployment and gateway approaches. Select migration patterns according to availability, compatibility and rollback needs.

05 PKI Migration Architecture

Design dual-capability PKI, trust-anchor transition and certificate lifecycle management. Assess HSM requirements and the effects of larger certificates and signatures.

06 Cryptographic Agility Architecture

Design agility across protocols, applications and infrastructure. Validate that systems can switch algorithms under realistic operating conditions.

07 Migration Design Documentation

Produce architecture decision records and implementation specifications. Organize design reviews and communicate trade-offs to technical and business stakeholders.

Applied learning

Apply the PQC Migration Framework to architecture decisions that implementation teams can use. Quantum Academy faculty brings current migration-program experience to the design work.

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 PQCA 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 Cryptographic Agility and Hybrid Cryptographic Implementations. 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 PQCA program at QuantumAcademy.com



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

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