

QUANTUM SECURITY & PQC

PKI Modernization for Post-Quantum

TECHNICAL DEEP DIVE

Plan the transition of certificate infrastructure, from dual-capability PKI and HSM readiness to trust anchors, certificate lifecycles and dependent applications.

DURATION

8 hours

Short professional course

LEVEL

Advanced

PQC basics recommended

ON-DEMAND FEE

US\$799

Online on-demand

Prepare the trust infrastructure.

WHAT YOU WILL LEARN

- ✓ Assess certificate-size, chain-validation and application impacts.
- ✓ Design PKI that supports classical and post-quantum capabilities.
- ✓ Plan HSM upgrades and root and intermediate trust-anchor migration.
- ✓ Coordinate certificate lifecycle, testing and rollback during the transition.

WHO SHOULD ATTEND

PKI architects and operators, certificate-lifecycle owners, and identity and infrastructure teams responsible for enterprise PKI or public trust operations.

PREREQUISITES

PQC fundamentals recommended. Foundation or PQCS Specialist Training provides optional preparation.

Why Quantum Academy

The course draws on the Applied Quantum PQC Migration Framework and faculty experience running migration programs inside organizations.

What you will study

Certificate infrastructure, trust anchors and migration dependencies.

01 The Post-Quantum PKI Challenge

Assess certificate sizes, chain validation, OCSP, handshake performance and storage.

02 Dual-Capability PKI Design

Compare dual hierarchies, cross-signing and composite or hybrid certificate approaches.

03 HSM and Trust Anchor Migration

Assess HSM readiness and sequence root and intermediate changes, including key ceremonies.

04 Certificate Lifecycle During Transition

Plan issuance, renewal, revocation, automation and monitoring across both algorithm families.

05 Protocol and Application Impact

Test TLS, code signing, S/MIME and document signing for size and compatibility constraints.

06 Migration Planning and Execution

Sequence PKI changes with the broader migration, including validation, rollback and partners.

Formats and fees

Online on-demand	US\$799
Live online	US\$1,199
In person	US\$1,599
Private team training	Custom quote

What is included

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

Includes a certificate of completion, not professional certification. CPE earned may apply toward Quantum Academy certification maintenance.

Explore the course

View course details at QuantumAcademy.com



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

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