

QUANTUM SECURITY & PQC

Quantum-Safe Digital Assets

SECTOR OVERVIEW

Assess quantum exposure in blockchain systems and the technical and governance decisions involved in post-quantum migration.

DURATION

3 hours

Short professional course

LEVEL

Intermediate

No formal prerequisites

ON-DEMAND FEE

US\$249

Online on-demand

Plan a coordinated protocol transition.

WHAT YOU WILL LEARN

- ✓ Distinguish blockchain signature exposure from conventional enterprise PKI.
- ✓ Assess coordination and governance constraints in decentralized upgrades.
- ✓ Evaluate proposed signature approaches and wallet migration options.
- ✓ Identify cryptographic dependencies in custody, Layer 2 and smart contracts.

WHO SHOULD ATTEND

Exchange and custodian security leads, key management and HSM engineers, protocol and wallet teams, and risk and compliance staff responsible for custody.

PREREQUISITES

None. Sector experience helps. Post-Quantum Foundation is an optional starting point.

Why Quantum Academy

Our faculty runs sector migration programs. The course applies the Digital Assets Extension of the Applied Quantum PQC Migration Framework.

What you will study

Sector-specific priorities for post-quantum migration.

01 Blockchain Cryptographic Exposure

Examine public-key exposure, signatures and hash functions in blockchain systems. Compare Bitcoin, Ethereum and conventional certificate infrastructure.

02 The Governance Problem

Compare hard-fork and soft-fork approaches. Assess community coordination, lessons from earlier upgrades and the time required to agree on a transition.

03 Post-Quantum Proposals and Migration Paths

Review post-quantum signature proposals, wallet migration and protocol roadmaps. Assess Lightning, Layer 2 and smart-contract dependencies.

Formats and fees

Online on-demand	US\$249
Live online	US\$379
In person	US\$499
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. This is not a professional certification.

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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