

QUANTUM SECURITY & PQC

Quantum-Safe Payments

SECTOR OVERVIEW

Assess the migration challenge across payment networks, hardware security modules, terminals and the organizations that operate them.

DURATION

3 hours

Short professional course

LEVEL

Intermediate

No formal prerequisites

ON-DEMAND FEE

US\$249

Online on-demand

Plan across the payment ecosystem.

WHAT YOU WILL LEARN

- ✓ Map cryptography across authorization, clearing, settlement and key management.
- ✓ Assess terminal fleets and hardware security modules for migration constraints.
- ✓ Examine lessons from BIS Project Leap and payment-industry initiatives.
- ✓ Sequence migration and testing across issuers, processors, schemes and devices.

WHO SHOULD ATTEND

Payment security architects, HSM engineers, terminal and card product managers, compliance leads, and risk staff at payment ecosystem organizations.

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 Payments Extension of the Applied Quantum PQC Migration Framework.

What you will study

Sector-specific priorities for post-quantum migration.

01 Where Payment Systems Use Cryptography

Examine card processing, PIN protection, key injection, settlement messaging and terminal cryptography. Identify the payment HSM estate and its dependencies.

02 BIS Project Leap and Industry Initiatives

Review BIS Project Leap and industry coordination initiatives. Examine payment-security guidance, network expectations and their implications for migration planning.

03 Device Fleet Migration

Assess device upgrade limits, key injection changes and HSM firmware sequencing. Plan dual-algorithm operation and consider replacement costs.

04 Migration Sequencing

Compare back-end and front-end priorities. Coordinate across networks and define testing for payment flows during the cryptographic transition.

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 Ivezić, 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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