

QUANTUM SECURITY & PQC

PQC for the SOC

TECHNICAL DEEP DIVE

Prepare security operations to monitor a cryptographic transition, detect unexpected fallback and downgrade behavior, and respond to cryptographic events.

DURATION

4 hours

Short professional course

LEVEL

Intermediate

PQC basics recommended

ON-DEMAND FEE

US\$499

Online on-demand

Keep the transition visible.

WHAT YOU WILL LEARN

- ✓ Monitor migrated systems, hybrid deployments and classical fallback.
- ✓ Design detection content for anomalous cryptographic behavior.
- ✓ Update SIEM rules, correlation logic and incident playbooks.
- ✓ Define the handover to ongoing SOC monitoring after migration.

WHO SHOULD ATTEND

SOC analysts and leads, detection engineers and incident response teams who will monitor systems through the cryptographic transition and operate them afterward.

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

Detection, monitoring and response during cryptographic transition.

01 Monitoring Cryptographic Transition

Build visibility into protocol usage, migrated systems and hybrid connections. Design security-operations dashboards for the transition.

02 Downgrade Attack Detection

Distinguish expected fallback from malicious downgrade attempts. Examine detection signatures and SIEM rule design.

03 SIEM Integration and Detection Engineering

Select useful log sources, integrate cryptographic telemetry and tune correlation rules and thresholds to manage false positives.

04 Incident Response for Cryptographic Events

Develop playbooks for downgrade events and suspected compromise. Define the SOC's role in verification and ongoing cryptographic monitoring.

Formats and fees

Online on-demand	US\$499
Live online	US\$749
In person	US\$999
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](https://quantumacademy.com)



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

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