

QUANTUM SECURITY & PQC

PQC Migration for DevSecOps

TECHNICAL DEEP DIVE

Integrate cryptographic discovery, policy checks, staging tests and key management into the development pipeline, including container and Kubernetes environments.

DURATION

4 hours

Short professional course

LEVEL

Intermediate

Pipeline familiarity assumed

ON-DEMAND FEE

US\$499

Online on-demand

Make cryptographic change routine.

WHAT YOU WILL LEARN

- ✓ Scan repositories and build artifacts for cryptographic dependencies.
- ✓ Integrate CBOM generation and cryptographic policy checks into CI/CD.
- ✓ Test hybrid behavior, compatibility and performance before production.
- ✓ Plan certificate, key and signing changes across pipelines and containers.

WHO SHOULD ATTEND

Platform and DevSecOps engineers, CI/CD owners and application security teams responsible for the pipelines that deliver cryptographic change.

PREREQUISITES

Pipeline-tooling familiarity is assumed. PQC fundamentals recommended; Foundation or PQCS Training is optional.

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

Discovery, testing and cryptographic operations within CI/CD.

01 Cryptographic Dependency Scanning in CI/CD

Scan code and dependencies, generate CBOMs and enforce policy during builds. Track cryptographic debt as part of routine engineering work.

02 Testing PQC in the Pipeline

Build staging tests for hybrid implementations, interoperability and performance regression. Include negative testing for downgrade prevention.

03 Key and Certificate Management for Dual-Stack

Plan secrets management, provisioning and key rotation for dual-algorithm deployments. Automate certificate and key workflows through the pipeline.

04 Container and Kubernetes Considerations

Assess service meshes, mTLS, image signing and cryptographic configuration across containerized and orchestrated environments.

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



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

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