

QUANTUM SECURITY & PQC

Quantum-Safe Automotive

SECTOR OVERVIEW

Plan migration for connected vehicles and their supporting services, with attention to update signing, long-lived fleets and supplier dependencies.

DURATION

3 hours

Short professional course

LEVEL

Intermediate

No formal prerequisites

ON-DEMAND FEE

US\$249

Online on-demand

Plan for the vehicle lifecycle.

WHAT YOU WILL LEARN

- ✓ Map cryptography across vehicle networks, back-end systems and connectivity.
- ✓ Plan the transition of over-the-air update signing across vehicle generations.
- ✓ Separate vehicles that can receive cryptographic updates from those that cannot.
- ✓ Integrate post-quantum requirements into product engineering and procurement.

WHO SHOULD ATTEND

Vehicle security architects, OTA and back-end platform leads, V2X and connectivity engineers, and product cybersecurity teams at OEMs and tier-one suppliers.

PREREQUISITES

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

Why Quantum Academy

Quantum Academy teaches from the Applied Quantum PQC Migration Framework and faculty experience running enterprise migration programs.

What you will study

Sector-specific priorities for post-quantum migration.

01 Automotive Cryptographic Exposure

Map update signing, telematics, diagnostics, vehicle networks and connected services. Assess the consequences of long vehicle lifetimes.

02 OTA Update Signing Migration

Evaluate signing-key migration, dual signatures and support across vehicle generations. Consider remediation when deployed systems cannot be updated.

03 V2X and Connected Services

Assess vehicle-to-everything communication, telematics, service APIs and fleet management. Identify dependencies and transition requirements.

04 Standards and Supply Chain

Examine relevant product cybersecurity standards and regulatory frameworks. Translate migration needs into supplier requirements and platform specifications.

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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