

QUANTUM SECURITY & PQC

Quantum-Safe Energy and Utilities

SECTOR OVERVIEW

Plan post-quantum migration across utility control systems, smart grids and metering while accounting for asset lifecycles and change controls.

DURATION

3 hours

Short professional course

LEVEL

Intermediate

No formal prerequisites

ON-DEMAND FEE

US\$249

Online on-demand

Connect migration to asset planning.

WHAT YOU WILL LEARN

- ✓ Map cryptography across generation, transmission, distribution and metering.
- ✓ Distinguish work suited to maintenance windows from changes requiring outages.
- ✓ Assess legacy meters, gateways and long-lived assets for feasible migration paths.
- ✓ Connect applicable change controls and procurement requirements to the plan.

WHO SHOULD ATTEND

Utility security architects, OT and control-system engineers, compliance staff, and smart-grid and metering owners across electric, gas and water utilities.

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 The Utility Cryptographic Estate

Map control-system, substation and metering dependencies. Examine distribution automation, demand response and water-treatment systems.

02 NERC CIP and Regulatory Compliance

Examine applicable NERC CIP and other regulatory considerations. Connect cryptographic changes to configuration management, approvals and evidence requirements.

03 Smart Grid Migration

Assess advanced metering, distribution automation and demand-response security. Identify cryptographic dependencies in distributed energy resource management.

04 Asset Lifecycle Integration

Coordinate migration with replacement cycles and procurement. Evaluate gateways for legacy assets and align funding with utility planning processes.

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.

support@quantumacademy.com | +1 (312) 803-4969

Prices: September 2026; applicable taxes are shown at checkout. Quantum Academy credentials are private professional credentials of Post-Quantum Institute, not government-issued licenses, accredited degrees or academic credit. No employment, promotion, regulatory approval or specific outcome is guaranteed. Programs are educational and informational only, not legal, compliance or engineering advice.