

QUANTUM TECHNOLOGY

Certified Quantum Systems Integrator

CQSI TRAINING

Design and operate the classical infrastructure, workflows and cloud services that quantum computing requires.

ON DEMAND

~40 hours

Self-paced

LIVE TRAINING

24 hours

Across four days

LEVEL

Advanced

Certification preparation

Integrate quantum into operations.

WHAT YOU WILL LEARN

- ✓ Design hybrid quantum-classical architectures and quantum-HPC integration.
- ✓ Build data pipelines and orchestrate quantum-classical workflows.
- ✓ Architect cloud deployments and optimize execution performance.
- ✓ Implement monitoring, error handling and operational runbooks.

WHO SHOULD ATTEND

Systems integrators, enterprise and cloud architects, DevOps engineers, HPC specialists and technical managers responsible for quantum integration.

PREREQUISITES

Active Certified Quantum Technology Professional (CQTP) certification is required.

Preparation for the CQSI certification

Completing training does not confer the credential. You must pass the separate exam.

What you will study

Seven modules connecting core concepts with applied professional decisions.

01 Quantum-HPC Integration Architecture

Assess classical control, signal generation, readout and computing requirements. Design integration around latency, compilation, error-correction and data-management constraints.

02 Workflow Orchestration and Job Management

Coordinate scheduling, queues, compilation and result processing. Handle hardware availability, calibration changes and execution failures in hybrid applications.

03 Cloud Quantum Architecture and Deployment

Design direct API, managed service and hybrid deployment patterns. Address authentication, access control, logging, multi-cloud usage and cost management.

04 Performance Optimization

Evaluate circuit optimization, qubit mapping, routing and error mitigation. Use application-relevant benchmarks and recognize hardware limits.

05 Production Operations and Monitoring

Monitor hardware health, calibration status and quantum-specific failure modes. Develop alerting, capacity planning, change management and operational runbooks.

06 Security and Compliance

Secure the classical control plane and quantum-resource access. Apply data classification and assess requirements for regulated workloads.

07 Integration Project Management

Define realistic success criteria, integration milestones and vendor responsibilities. Plan testing, production readiness and ongoing operational capability.

Applied learning

The course draws on Quantum Systems Integration by Marin Ivezic and faculty work with quantum engineering teams. It connects architecture decisions to day-to-day operations.

Plan your participation

Training formats and fees

Online on-demand	US\$2,499
Live online	US\$2,999
In person	US\$3,499
Private team training	Custom quote

Live online and in-person delivery: four days, six hours of instruction per day. On-demand delivery: approximately 40 hours at your own pace.

Includes a certificate of completion. This is not a professional certification.

Included with training

- Course handbook with the full material and written instructor notes.
- PDF copy of Quantum Systems Integration by Marin Ivezić, included at no extra cost.
- 180 days of online on-demand access. Where that course is not yet published, the 180 days start on the day it is.

Training and exam options

On-demand + exam	US\$2,999
In-person + exam	US\$3,999
Exam only	US\$699

Quantum Computing Path: US\$4,499 online
CQTP + CQSI training and both exams. CQTP must be active before CQSI training.

The CQSI exam

120 questions: 110 scored + 10 unscored pilot items.

180 minutes; closed book; proctored.

Multiple-choice and scenario questions.

Passing score: 700 on a 100-900 scale.

Plan 30-50 hours of independent study in addition to the course.

After certification

Extend into Hands-On Quantum Programming for software workflows, or Building and Operating Quantum Computers for the hardware side of integration.

Three-year validity. US\$149 annual maintenance covers all active Quantum Academy credentials. See the [credential page](#) for renewal and exam terms.

Explore dates and enrollment

View the CQSI program at QuantumAcademy.com



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

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

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.