

TGS-2025059403

IN-PERSON WORKSHOP

Quantum Computing in Finance: Transforming the Future of Financial Services



Target Audience:

Private Bankers, Wealth Managers, Financial Advisors, & Independent Financial Advisors

Duration: 4.5 CPD Hours
Fee: SGD 550 per participant

EARLY BIRD DISCOUNT

Enjoy **10% discount** when you register **one (1) month before** the course commencement date.

Learning Objectives

- Understand core concepts of quantum computing and how it differs from classical computing
- Explore real-world financial applications like portfolio optimization, risk analysis, and fraud detection
- Evaluate industry readiness, regulatory factors, and the potential impact on the financial sector

Explore quantum computing's impact on finance, from risk modeling to investment strategy, and prepare for the quantum future.



Course Outline

Module 1: Introduction to Quantum Computing

- Classical vs. Quantum Computing – Key differences and limitations
- Fundamental Quantum Concepts – Superposition, entanglement, quantum algorithms
- The Current Landscape – Industry players and real-world advancements

Module 2: Quantum Computing in Finance

- Portfolio Optimization & Risk Management – Quantum Monte Carlo & QAOA
- Algorithmic Trading – Predictive analytics and market forecasting
- Cybersecurity – Quantum-safe cryptography and fraud detection

Module 3: Use Cases in Wealth Management

- Quantum Portfolio Management – Enhanced investment strategies
- Risk Modeling & Stress Testing – Faster, more precise simulations
- Case Studies – How top financial institutions are applying quantum

Module 4: Transitioning from Classical to Quantum

- Hybrid Quantum-Classical Models – Practical adoption strategies
- Workforce Readiness – Upskilling for the quantum revolution
- Compliance & Regulations – Addressing financial industry challenges

Module 5: Impact & Future Outlook

- Competitive Advantage – Why early adopters will lead the industry
- Emerging Technologies – The next wave of quantum innovations
- Strategic Roadmap – Preparing for quantum-driven finance

KEY VALUE PROPOSITIONS

- Gain a solid grasp of quantum computing and how it diverges from classical systems
- Apply momenta's practical approach to investment strategy, risk modeling, and trading
- Learn from case studies featuring JPMorgan, Goldman Sachs, and BBVA and prepare for quantum's impact on cybersecurity, compliance, and hybrid advisory models

PRACTICE & APPLICATION

- Prospecting Role-play Scenarios

Completion of this course can be counted towards the fulfillment of the non-STs portion for CACS CPD. This course is recognized under the Financial Training Scheme (FTS) and is eligible for FTS claims subject to all eligibility criteria being met. Please note that in **no way** does this represent an endorsement of the quality of the training provider and course. Participants are advised to assess the suitability of the course and its relevance to his/her business activities or job roles. The FTS is available to eligible entities based on the prevalent funding eligibility, quantum and caps. FTS provides up to 70% course fee subsidy support for direct training costs subject to a cap of \$5500 per candidate per course subject to all eligibility criteria being met. Find out more on www.ibf.org.sg

Up to 70% Funding

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Financial Training Scheme (FTS)



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