



Course Code: TGS-2024043419

WSQ - Securing the Future with Quantum Computing and Cryptography

Funding Available: WSQ SkillsFuture Credit PSEA UTAP SFEC Absentee Payroll MCES

COURSE INFORMATION

Sessions 4 days	Duration 32 hrs	Level Beginner to Intermediate	Assessment 2 hrs
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VENUE
12 Woodlands Square #07-85/86/87 Woods Square Tower 1, Singapore 737715. 5 mins walk from Woodlands (NS9) MRT station.
The venue is disabled-friendly.

WHAT'S THIS COURSE ABOUT

Topic 1 Quantum Physics Fundamentals

Postulates of Quantum Mechanics

Mathematics for Quantum Mechanics

Topic 2 Introduction to Quantum Computing Systems

Overview of quantum computers

Commercial quantum computing systems

Superposition and Entanglement

Topic 3 Quantum Gates and Circuits

Single Qubit Gates

Multi Qubits Gates

Bell and GHZ States

Phase Kickback

Topic 4 Quantum Protocols

No Cloning Theorem

Quantum Teleportation

Superdense Coding Protocol

BB84 Quantum Key Distribution (QKD) Protocol

CHSH...

WSQ FUNDING

Full Fee S\$1,800.00 Before GST

GST S\$162.00 9% of fee

Baseline Nett S\$1,062.00 SG/PR age 21+ · 50% funded · incl. GST

MCES / SME Nett S\$702.00 SG age 40+ · 70% funded · incl. GST

CERTIFICATION

- **Certificate of Completion from Tertiary Infotech** - Upon meeting at least 75% attendance and passing the assessment(s), participants will receive a Certificate of Completion from Tertiary Infotech.
- **OpenCerts from SkillsFuture Singapore** - After passing the assessment(s) and achieving at least 75% attendance, participants will receive an OpenCert (aka Statement of Achievement) from SkillsFuture Singapore, certifying that they have achieved the Competency Standard(s) in the above Skills Framework.

REGISTRATION

<https://www.tertiarycourses.com.sg/wsq-securing-the-future-with-quantum-computing-and-cryptography.html>



SCAN TO REGISTER

SUPPORT

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