DevOpsSchool

Course curriculum · November 2026

LEVEL 01 OF 04 · FOUNDATION

Quantum Computing Foundation Training

Explain qubits, superposition and entanglement, and build and run your first quantum circuits in Qiskit on a simulator.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **1 day · Day 1**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · This curriculum	2 days · Next step	3 days · Later	5 days · Later

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	11 topics · Foundation
Hands-on labs	1 lab
Formats and fees	Live, 1:1, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/quantumcomputing/quantum-computing-foundation-training.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

What you will achieve

By the end of the Quantum Computing course path, you will be able to:

1

Understand quantum computing

Explain qubits, gates, entanglement and measurement and reason about quantum circuits.

2

Program quantum algorithms

Implement and run core and variational quantum algorithms in Qiskit on simulators and hardware.

3

Plan for the quantum era

Evaluate fault tolerance, post-quantum cryptography and real use cases for your organisation.

WHAT THE FOUNDATION LEVEL ADDS

Qubits, gates, circuits and first Qiskit program

Hands-on: Build and run a Bell-state circuit. Build single-qubit and Bell-state circuits in Qiskit, run them on the simulator, and explain the measured probability distributions.

WHO SHOULD ATTEND

- Beginners and working professionals who are new to Quantum Computing and want a solid, hands-on start.
- Engineers, analysts, testers and students preparing to use Quantum Computing on real work.
- Leads and managers who want first-hand familiarity with Quantum Computing.

BEFORE YOU START

- No prior Quantum Computing experience is needed.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION

Quantum Computing Foundation Training agenda

11 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

DAY 1 — Foundation: Qubits, gates, circuits and first Qiskit program

New at this level

1. Classical vs quantum computing: bits vs qubits, what quantum computers can and cannot speed up
2. Mathematical toolkit: complex numbers, vectors, matrices, Dirac notation and tensor products
3. Qubits and superposition: state vectors, amplitudes, probabilities and the Bloch sphere
4. Measurement: the Born rule, collapse, measurement bases and repeated shots
5. Single-qubit gates: X, Y, Z, Hadamard, S, T and rotation gates as unitary matrices
6. Multi-qubit systems and entanglement: CNOT, Bell states and why entanglement matters
7. Quantum circuits: reading circuit diagrams, gate order, classical registers and measurement
8. Quantum hardware landscape: superconducting, trapped-ion, neutral-atom, photonic and spin qubits
9. Setting up Qiskit: Python environment, pip install qiskit, Jupyter and the Aer simulator
10. First program: building a Bell-state circuit, simulating it and plotting measurement counts
11. Cloud access: creating an IBM Quantum account and exploring available backends

PRACTICE

Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

Build and run a Bell-state circuit

Build single-qubit and Bell-state circuits in Qiskit, run them on the simulator, and explain the measured probability distributions.

HOW YOU CAN LEARN

Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
1:1 live training (online)	Max 8-10 hours, one-to-one	The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace.	**INR 99,999**
Self-paced video	1-year LMS access	All four Quantum Computing levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	1 day for this level	A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative).	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR QUANTUM COMPUTING TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/quantumcomputing/

ENROL OR RESERVE A SEAT
Quantum Computing Foundation Training

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Next step after this level: Quantum Computing Essential Training - Implement the core quantum protocols and algorithms in Qiskit, from teleportation to Grover's search and the quantum Fourier transform.