

QC101 Weekly Program

QUCAN QC101	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Live lecture	Introduction to Quantum Computing	Math for Quantum Computing	Qubits and Quantum Circuits	Python for Quantum Computing	Quantum Mechanics	Quantum Protocols and QKD	Quantum Algorithms	Executing Quantum on Quantum Computers
Live lab	Quantum Revolution and Applications of Quantum Computing	Math Exercises and Tensor Product	Bloch Sphere and Bell State Exercises	Applications of Python in Quantum Computing	Quantum Postulates	Applications of Quantum Teleportation and BB84	Applications of Quantum Algorithms	Quantum Stack and Overview of Quantum Computation
Video	9 self-paced tutoring videos	60 self-paced tutoring videos	7 self-paced tutoring videos	32 self-paced tutoring videos	18 self-paced tutoring videos	2 self-paced tutoring videos		
Document	Slides of live sessions, Q's from Q-Notebook	Slides of live sessions, Q's from Q-Notebook	Slides of live sessions, Q's from Q-Notebook	Slides of live sessions, Q's from Q-Notebook	Slides of live sessions, Q's from Q-Notebook	Slides of live sessions, Q's from Q-Notebook	Slides of live sessions, Q's from Q-Notebook	Slides of live sessions, Q's from Q-Notebook
Quiz	4 practice quizzes	4 practice quizzes	5 practice quizzes	6 practice quizzes	5 practice quizzes	5 practice quizzes	4 practice quizzes	5 practice quizzes
Assignment				Assignment I			Assignment II	
Community discussions	Post-quantum cryptography	TBA	TBA	TBA	TBA	TBA	TBA	TBA
Q-Network	Invitation to QUCAN community and QC101 cohort network							Invitation to QC101 alumni network
Classiq Platform				License + exclusive materials + live session	License + exclusive materials + live session	License + exclusive materials + live session	License + exclusive materials + live session	License + exclusive materials + live session
Kipu Quantum Hub				License + exclusive materials + live session	License + exclusive materials + live session	License + exclusive materials + live session	License + exclusive materials + live session	License + exclusive materials + live session
Q-CTRL's Black Opal				License	License + live session	License	License	License + live session

Learners will continue accessing the program materials for 12 months. Third party services and some special materials may vary.

Purple highlights are exclusively available for QC101+ learners or with additional Black Opal purchase.

Green highlights are exclusively available for QC101 with Industry learners.

QUCAN reserves the right to make any changes to the program or materials.