

Quantum Programming - Core

Quantum Computing with D-Wave

Expand your knowledge of quantum computing by learning how to build quantum applications!

Quantum Programming - Core is a one-week online course led by D-Wave experts. With this course, you can accelerate quantum application development, receive expert training and mentorship, connect with our Leap community, and gain new ideas and skills while differentiating yourself in the marketplace.

Details:

This online course runs for one week, with optional live instructor office hours offered each day. If needed, learners have an additional one-week grace period to complete assignments. It requires a time commitment of about 30 hours. The course materials include recorded presentations, quizzes, assignments, and live office hours with a D-Wave instructor.

"A great balance between quantum theory, industry examples and coding practice...taught by knowledgeable and responsive instructors! Overall I'd strongly recommend this course."

Objectives:

After successfully completing this course, learners will be able to:

- Break down an optimization problem into distinct objectives and constraints.
- Formulate real-world optimization problems as quadratic models.
- Write an Ocean program to run on D-Wave's quantum computer and hybrid solvers.
- Examine different problems in your area of interest for suitability for D-Wave's products.

"What's the point of a course? I said initially, 'There's so much on the internet already!'. How wrong I was! The problem is exactly that, there's so much out there, but it is almost impossible to use. By contrast, the course offered a starting point, a step by step progression, and clear objectives at all times... Congratulations for making me eat my words and being happy about it!"

Ready to skill up for the future today?

[Visit our course catalog](#) to view the upcoming training schedule and register!

D-Wave's robust, hands-on training will enable you to immediately put theory into practice with real-world quantum applications.

"[This course] really was amazing. The most useful aspects were surely the videos and exercises, giving the right balance from theory to application."

At a Glance: Quantum Programming - Core

DURATION:

1 week
(with additional "grace period" week, if needed)

MODALITY:

Online

INTENDED AUDIENCE:

Technical roles and anyone who wants to learn the basics of quantum programming using D-Wave technology.

LEVEL:

Intermediate

PREREQUISITES:

Intermediate Python programming skills, comfort working with math equations and graphs, and familiarity with matrix operations.



SIGN UP FOR QUANTUM PROGRAMMING - CORE TODAY!