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COURSE BROCHURE

# Quantum Computing Strategy for Business Leaders Training Course

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Abu Dhabi

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# Quantum Computing Strategy for Business Leaders Training Course

**Ref:** 2728_104221 **Date:** 2 – 6 May 2027 **Location:** Abu Dhabi **Fees:** 6500 GBP

Quantum Computing Strategy for Business Leaders is a 1-week training course for business and technology leaders who must decide when and how their organisation engages with quantum computing, and who leave with a quantum readiness brief for their organisation. Investors, vendors and boards now ask leaders for a clear position on the technology, even while useful machines remain early. Jupiter Prime Training delivers Quantum Computing Strategy for Business Leaders for leaders from many organisations.

## Why Quantum Computing Strategy for Business Leaders Matters Now

Three forces shape quantum decisions today. Hardware makers and cloud providers announce steady progress, which pushes boards to ask whether early action brings an advantage. Competitors in finance, chemicals and logistics run small experiments, so leaders worry about falling behind. Security teams warn that future machines could break today's public-key encryption, which raises questions about long-lived sensitive records. An organisation that handles this well spends modestly, builds skills and protects its data in time; one that handles it badly either overspends on hype or ignores a real long-term risk. The course rests on separating proven capability from vendor claims.

## Who Gains Most from Quantum Computing Strategy for Business Leaders

- Leaders who set technology investment priorities
- Strategy and innovation heads who scan emerging technologies
- Business unit heads who own hard optimisation problems
- Risk and security leaders who judge long-term threats to sensitive data
- Procurement and partnership leads who select research partners

An executive team gains most when its business, technology and risk leaders attend together.

## Quantum Computing Strategy for Business Leaders Capabilities

Participants move from separating quantum fact from hype to setting a measured organisational position.

- Assess what current quantum machines can and cannot do — the board's expectations
- Weigh candidate use cases in optimisation, simulation and financial modelling — the investment shortlist
- Test readiness signals such as error rates and qubit quality — the timing of action
- Compare partner options across hardware makers, cloud access and research groups — the sourcing decision
- Specify an inventory of data that must stay confidential for many years — the security response
- Communicate a balanced quantum position to boards, staff and investors — the organisation's narrative

## Key Quantum Computing Strategy for Business Leaders Terms

- Qubit — the basic unit of quantum information, holding a blend of zero and one
- Superposition — the ability of a qubit to represent several states at once during a calculation
- Entanglement — a link between qubits so that the state of one depends on the state of another
- Error correction — methods that combine many physical qubits into fewer reliable ones
- Quantum advantage — the point where a quantum machine solves a useful problem better than the best ordinary computer
- Harvest now, decrypt later — the threat of stealing encrypted data today to read it once quantum machines mature

## Quantum Computing Strategy for Business Leaders Day by Day

### Day 1: Quantum Computing in Plain Terms

- Qubits, Superposition and Entanglement Explained Simply — Realistic Board Expectations
- Gate-Based Machines Versus Quantum Annealers — Fit for Different Problems
- Noise, Error Rates and Error Correction — Distance From Useful Machines
- Hardware Approaches From Superconducting to Trapped Ions — Signals of Progress
- Separating Vendor Claims From Proven Results — Credibility of Announcements

### Day 2: Business Uses and Their Limits

- Optimisation in Routing, Scheduling and Portfolios — Candidate Problems by Sector
- Molecular and Materials Simulation — Research Value for Chemicals and Pharmaceuticals
- Pricing and Risk Calculations in Finance — Expected Speed Gains
- Quantum-Inspired Algorithms on Ordinary Computers — Near-Term Wins
- Use Case Scoring by Value, Feasibility and Timing — Investment Shortlist

### Day 3: Readiness Signals and Timing

- Technology Maturity Indicators and Roadmaps — When to Move
- Talent Needs and Skills Building — Hiring Versus Partnering
- Competitor and Sector Activity Scanning — Risk of Falling Behind
- Small Experiments on Cloud Quantum Services — Learning at Low Cost
- Stage-Gated Investment Approach — Spending Limits per Stage

### Day 4: Partners and Data Security

- Hardware Makers, Cloud Platforms and Research Groups — Partner Selection Criteria
- Contract Terms for Access, Data and Intellectual Property — Protection of Results
- Public-Key Encryption Exposure to Future Machines — Long-Term Data Risk
- Inventory of Long-Lived Confidential Records — Priority for Protection
- Board and Investor Communication on Quantum — Balanced Organisational Position

## Day 5: Practising the Quantum Readiness Brief

- Applying Use Case Scoring to Own Organisation — Shortlisted Opportunities
- Applying Readiness Signals to a Timing Choice — Watch, Experiment or Invest
- Applying Partner Criteria to Market Options — Preferred Sourcing Route
- Peer Challenge of Assumptions and Risks — Strength of the Position
- Quantum Readiness Brief for the Organisation — Executive Decision

## Applying Quantum Computing Strategy for Business Leaders After the Course

- Run a use case scoring session with business unit heads
- Start an inventory of records that must stay confidential for many years

## Quantum Computing Strategy for Business Leaders Questions FAQ

### What is quantum computing strategy for business leaders and why does it matter now?

Quantum computing strategy for business leaders is the way an organisation decides when, where and how far to engage with quantum technology. It matters now because boards ask for a position while useful machines are still early.

### Which roles gain most from quantum computing strategy for business leaders?

Technology, strategy and business unit leaders gain most, along with risk and security leaders. You benefit most if you set investment priorities or own problems in optimisation, simulation or financial modelling.

### How does a quantum computing strategy for business leaders course differ from a technical quantum programming course?

It focuses on business decisions, not on writing quantum code. A programming course teaches circuits and software tools, while this course works through use case selection, timing, partner choice and data security.

### What do you bring back from quantum computing strategy for business leaders training?

You bring back a written quantum readiness brief for your organisation. It sets out shortlisted use cases, a timing choice, preferred partners and data security actions, ready for your executive team.

## Quantum Computing Strategy for Business Leaders: The Way Forward

The quantum readiness brief first informs whether the organisation should watch, experiment or invest. Executives use it to set spending limits, while security leaders use it to prioritise long-term data protection. After its first use, revisit the readiness signals and partner choices, since hardware progress and vendor offers change quickly.