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COURSE BROCHURE

Advanced Blockchain and Emerging Technologies Adoption Training Course

25 July – 5 August 2027
Abu Dhabi

Advanced Blockchain and Emerging Technologies Adoption Training Course

Ref: 350_12175 **Date:** 25 July – 5 August 2027 **Location:** Abu Dhabi **Fees:** 9900 GBP

Blockchain and Emerging Technologies Adoption is a 2-week advanced training course for managers and technology leads who must decide which blockchain, Internet of Things, AI, digital twin and extended reality ideas deserve investment, and who leave with an Emerging Technology Adoption Roadmap. Vendors pitch new platforms every quarter, yet few organisations have a repeatable way to separate durable capabilities from passing excitement. Jupiter Prime Training delivers this course on Blockchain and Emerging Technologies Adoption.

Why Blockchain and Emerging Technologies Adoption Matters Now

Three groups shape emerging technology choices today: suppliers who bundle blockchain, sensors and AI into ready-made platforms, boards who ask why rivals already run proofs of concept, and operational staff who must live with whatever is installed. An organisation with a disciplined scouting and screening method backs a few well-matched technologies and scales them; one without it scatters money across disconnected trials that never leave the laboratory. The course rests on two recognised models: Technology Readiness Levels TRL, a nine-step scale of technical maturity, and the Diffusion of Innovations model, which explains how adopter groups take up new practices.

Who Gains Most from Blockchain and Emerging Technologies Adoption

- Innovation managers who run technology scouting and horizon scanning
- Technology leads who design and supervise proofs of concept
- Operations managers who judge whether sensors, twins or immersive tools fit field work
- Architecture specialists who assess integration with existing platforms and data
- Portfolio managers who decide which experiments move to scaled rollout

A cross-functional innovation group drawing on operations, architecture and portfolio specialists gains most, because each technology decision needs all three viewpoints at once.

Blockchain and Emerging Technologies Adoption Capabilities

Participants build a common screening lens that works across ledgers, connected devices, machine learning and immersive media rather than treating each fashion separately.

- Assess technical maturity of a candidate technology with readiness levels — innovation committees
- Weigh blockchain, IoT, AI, twin and extended reality options against one business problem — operations heads
- Design a proof of concept with clear hypotheses and exit criteria — technology leads
- Calculate the total effort to integrate a new technology with legacy systems — architecture boards
- Specify ethical, security and workforce safeguards for each adoption — risk owners

- Build a sequenced adoption roadmap with scaling triggers — executive sponsors

Key Blockchain and Emerging Technologies Adoption Terms

- Technology Readiness Level — a nine-point scale rating how far a technology has progressed from basic research to proven operation.
- Internet of Things — networks of connected sensors and devices that collect and exchange data about physical assets and environments.
- Digital twin — a live virtual model of a physical asset, process or system, updated with sensor data to test changes safely.
- Extended reality — a family of immersive technologies, including virtual, augmented and mixed reality, that blend digital content with the physical world.
- Proof of concept — a small, time-boxed experiment that tests whether a technology can solve a defined problem before larger investment.
- Technology scouting — the structured search for external technologies, start-ups and research that could meet future organisational needs.

Blockchain and Emerging Technologies Adoption Day by Day

Day 1: The Emerging Technology Landscape

- Technology Radar Construction — Rings for Adopt, Trial, Assess and Hold
- Convergence Patterns — Where Ledgers, Sensors and Models Combine
- Vendor Claims Versus Evidence — Questions to Test Marketing Promises
- Sector Adoption Snapshots — Manufacturing, Logistics, Health and Energy Examples
- Organisational Appetite Survey — Gauging Readiness for Experimentation

Day 2: Maturity and Adoption Curves

- Technology Readiness Levels — Scoring Candidate Technologies Consistently
- Diffusion of Innovations Model — Matching Adopter Groups to Rollout Pace
- S-Curve Analysis — Spotting Performance Plateaus and Successors
- Standards Maturity Check — Interoperability and Lock-In Signals
- Talent Market Scan — Skills Availability for Each Technology

Day 3: Blockchain Beyond Finance

- Provenance and Traceability Ledgers — Food, Pharmaceuticals and Spare Parts
- Permissioned Network Design — Who Validates and Who Reads
- Verifiable Credentials — Digital Certificates for Staff and Suppliers
- Ledger Fit Questions — Shared Writers, Trust Gaps and Audit Needs
- Blockchain Failure Lessons — Why Many Consortium Projects Stalled

Day 4: Internet of Things and Edge Computing

- Sensor Selection and Placement — Measuring What Drives Decisions
- Connectivity Choices — Low-Power Wide Area, Cellular and Mesh
- Edge Versus Cloud Processing — Latency, Bandwidth and Cost Trade-Offs
- Device Lifecycle Management — Provisioning, Updates and Retirement
- IoT Security Baselines — Default Passwords and Firmware Patching

Day 5: Applied AI and Digital Twins

- AI Use Case Patterns — Prediction, Classification and Generation
- Data Readiness Assessment — Volume, Labels and Quality for Models
- Digital Twin Fidelity Levels — From Dashboard to Simulation Model
- Twin and Sensor Integration — Keeping Virtual Models Current
- Model Monitoring Practices — Drift, Bias and Performance Decay

Day 6: Extended Reality in Operations and Training

- Augmented Reality Work Instructions — Field Maintenance and Assembly
- Virtual Reality Simulation — Safety Drills and Skills Practice
- Remote Expert Assistance — Cutting Travel for Specialist Support
- Headset and Device Selection — Comfort, Ruggedness and Content Tools
- Immersive Content Production — In-House Versus Agency Models

Day 7: Use Case Screening and Prioritisation

- Problem-First Ideation — Starting From Pain Points, Not Products
- Weighted Screening Matrix — Feasibility, Desirability and Viability
- Technology Combination Analysis — When Two Tools Beat One
- Effort and Impact Mapping — Quick Wins and Strategic Bets
- Ethics and Workforce Impact Screen — Surveillance, Jobs and Consent

Day 8: Proof-of-Concept Design and Evaluation

- Hypothesis Canvas — What the Experiment Must Prove
- Success and Kill Metrics — Agreed Before Work Begins
- Sandbox and Test Data Setup — Protecting Live Operations
- Start-Up and Vendor Partnering — Terms for Short Experiments
- Evaluation Report Template — Evidence for the Scaling Decision

Day 9: Scaling, Integration and Safeguards

- Integration Architecture Review — APIs, Data Models and Middleware
- Security and Privacy by Design — Threat Modelling New Technology
- Change Readiness for New Tools — Training and Role Redesign
- Total Cost of Ownership — Licences, Devices, Support and Refresh
- Scaling Gates — Criteria for Moving Beyond the Pilot Site

Day 10: Practising the Emerging Technology Adoption Roadmap

- Technology Radar Refresh — Placing Each Candidate After Screening
- Readiness Level Scoring Review — Peer Challenge on Maturity Ratings
- Proof-of-Concept Portfolio Selection — Two or Three Priority Experiments
- Sponsor Pitch Rehearsal — Defending Choices and Safeguards
- Emerging Technology Adoption Roadmap Completion — Ready for Executive Review

Applying Blockchain and Emerging Technologies Adoption After the Course

- Publish a first technology radar for your organisation and invite business units to propose problems for screening.
- Rescore one live or proposed experiment with readiness levels and the weighted screening matrix, then recommend continue, pivot or stop.

Blockchain and Emerging Technologies Adoption Questions FAQ

What is Blockchain and Emerging Technologies Adoption and why does it matter now?

Blockchain and Emerging Technologies Adoption is the practice of scouting, screening and testing new technologies such as ledgers, IoT, AI, digital twins and extended reality before scaling them. It matters now because suppliers bundle these tools rapidly while boards expect evidence before spending.

Which roles gain most from Blockchain and Emerging Technologies Adoption training?

Innovation managers, technology leads, operations managers, architecture specialists and portfolio managers gain most. Together they own the path from idea to proof of concept to scaled rollout.

How does Blockchain and Emerging Technologies Adoption differ from a fintech course?

Blockchain and Emerging Technologies Adoption compares several technologies across operations, supply chains and training. A fintech course concentrates on payments, lending and digital assets; this course applies one screening method to ledgers, sensors, AI, twins and immersive tools in many sectors.

What do you bring back from Blockchain and Emerging Technologies Adoption training?

You bring back a sequenced roadmap that ranks candidate technologies, names priority proofs of concept with success and kill metrics, and sets scaling triggers your sponsors can approve.

Blockchain and Emerging Technologies Adoption: The Way Forward

The Emerging Technology Adoption Roadmap first informs which two or three proofs of concept receive budget in the next planning round. Innovation managers and technology leads use it to coordinate vendors, data and safeguards. After its first use, revisit the readiness scores and the technology radar, since maturity and supplier offers change quickly across ledgers, sensors and AI.