# Blockchain and Emerging Technologies Foundation Course

23 – 27 August 2027
Tokyo

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Training Center

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## Overview

Blockchain and Emerging Technologies Foundation Course is a one-week course for business and technology professionals, transformation teams, analysts, project managers, risk functions, and decision-makers who leave with an Emerging Technology Portfolio Pack. Participants compare blockchain, artificial intelligence, Internet of Things, extended reality, cloud-edge systems, and automation through capability, use-case, integration, risk, and governance lenses. The course turns technology labels into comparable adoption decisions. Agile Leaders Training Center develops blockchain and emerging technology evaluation practice.

## Who Should Attend

- Business functions responsible for identifying technology-enabled service and operating opportunities
- Transformation functions responsible for digital priorities and adoption roadmaps
- Technology functions responsible for architecture, integration, security, and platforms
- Project and portfolio functions responsible for use cases, investment, and delivery choices
- Risk and governance functions responsible for ethics, privacy, cybersecurity, and oversight

The course assumes participants already evaluate business or technology proposals; it leaves out software development, specialist engineering, and platform certification.

## Departments and Industries

The course supports departments and industries that evaluate emerging technologies for products, services, operations, or public value.

- Finance, retail, ecommerce, professional services, and digital platforms
- Manufacturing, logistics, energy, facilities, and industrial operations
- Healthcare, education, public administration, and social services
- Technology suppliers, consultancies, system integrators, and research functions
- Strategy, innovation, enterprise architecture, risk, and investment governance

## Learning Objectives

By the end of this course, participants will be able to:

- Compare blockchain, AI, IoT, extended reality, and automation capabilities.
- Analyze business problems and select suitable technology patterns.
- Build data, integration, infrastructure, and operating-model views.
- Evaluate ethics, privacy, cybersecurity, reliability, and adoption risks.
- Prioritize technology initiatives using value, maturity, and readiness evidence.
- Build an Emerging Technology Portfolio Pack.

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## Course Agenda

## Day 1: Map the Emerging Technology Landscape

- Emerging Technology Capability Taxonomy
- Business Problem and Technology Fit Canvas
- Technology Maturity and Adoption Curve
- Value, Feasibility, and Risk Screening Matrix
- Emerging Technology Stakeholder Map

## Day 2: Compare Blockchain and AI

- NIST IR 8202 Blockchain Capability Map
- Distributed Trust and Shared-Record Use-Case Grid
- NIST AI RMF 1.0 Govern-Map-Measure-Manage View
- Prediction, Generation, and Decision Automation Matrix
- Blockchain and AI Combination Pattern

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## Day 3: Connect IoT, Cloud-Edge, and Immersive Systems

- IoT Device, Data, and Service Architecture
- Cloud and Edge Workload Placement Matrix
- Extended Reality Interaction and Content Model
- Automation and Human-in-the-Loop Workflow
- Cross-Technology Data and Interface Map

## Day 4: Govern Integration and Risk

- Technology Ethics and Stakeholder-Impact Assessment
- Privacy, Cybersecurity, and Identity Control Map
- Reliability, Safety, and Dependency Risk Register
- Vendor, Skills, and Operating-Model Readiness Scorecard
- OECD Anticipatory Governance Practice Map

## Day 5: Practice Technology Portfolio Decisions

- Exercise: Match a Business Problem to a Technology Pattern
- Exercise: Compare Blockchain and AI Use Cases
- Exercise: Diagnose an IoT and Cloud-Edge Integration Risk
- Exercise: Prioritize an Emerging Technology Portfolio
- Capstone: Emerging Technology Portfolio Pack

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## Practical Exercises

The course uses suggested activities based on financial services, manufacturing, logistics, healthcare, education, and public-service cases.

- Suggested activity: classify a technology proposal by capability, problem fit, maturity, and dependencies.
- Suggested activity: compare a shared-ledger pattern with an AI-enabled decision pattern.
- Suggested activity: trace data across devices, edge processing, cloud services, and user interaction.
- Suggested activity: defend a portfolio roadmap using value, risk, maturity, and readiness evidence.

## FAQs

### Who suits blockchain and emerging technologies training, and what does it assume?

Business, transformation, technology, project, portfolio, risk, and governance functions suit the training. It assumes regular evaluation of business or technology proposals and requires no coding background.

### How does emerging technology training differ from a blockchain fundamentals course?

Emerging technology training compares blockchain with AI, IoT, extended reality, cloud-edge systems, and automation, while a blockchain fundamentals course concentrates on distributed-ledger mechanics and cryptocurrency operations.

### How should organizations compare emerging technologies?

Organizations should compare technologies by problem fit, capability, data needs, integration, maturity, value, risk, skills, operating model, and implementation readiness.

### When should blockchain be combined with AI or IoT?

Blockchain may complement AI or IoT when parties need shared records, traceability, or coordinated rules alongside sensor data or automated decisions, provided the added complexity is justified.

### How are emerging technology risks governed?

Emerging technology risks are governed through defined owners, impact assessment, privacy and security controls, testing, monitoring, stakeholder engagement, portfolio reviews, and readiness gates.

## Conclusion

Participants take back an Emerging Technology Portfolio Pack containing capability maps, fit tests, architecture views, integration patterns, risk registers, readiness scorecards, and an adoption roadmap. It changes disconnected technology ideas into comparable portfolio decisions. The pack supports disciplined selection, governed experimentation, and traceable investment choices.