



Next-Generation Infrastructure Portfolio Strategy Course

23 – 27 August 2027
Kuala Lumpur

Next-Generation Infrastructure Portfolio Strategy Course

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Overview

Next-Generation Infrastructure Portfolio Strategy Course is a five-day advanced course for infrastructure decision teams who leave with a Next-Generation Infrastructure Portfolio Roadmap. Participants shape a next-generation infrastructure portfolio strategy by connecting resilient service outcomes, cross-sector infrastructure dependencies, digital infrastructure capabilities, decarbonization, circularity, inclusive access, and flexible capacity. The course converts uncertain demand, legacy constraints, technology choices, and investment dependencies into sequenced decisions supported by adaptive portfolio governance. Agile Leaders Training Center presents infrastructure portfolio transformation through practical decision artifacts.

Who Should Attend

- Teams responsible for long-term infrastructure strategy, portfolio priorities, and service outcomes
- Functions coordinating asset renewal, capital planning, and cross-sector investment dependencies
- Groups selecting digital capabilities, data arrangements, and technology adoption pathways
- Personnel directing resilience, decarbonization, circularity, and inclusive-access objectives
- Decision teams governing delivery models, benefits, performance, and portfolio adjustment

The course assumes participants can interpret portfolio plans, asset information, investment cases, and performance reports, and it leaves out project feasibility studies, engineering design, financial or legal advice, statutory approvals, and professional certification.

Departments and Industries

The course supports departments and industries responsible for infrastructure portfolios, public services, assets, technology, investment, and sustainability.

- Infrastructure strategy, capital planning, investment, and portfolio offices
- Transport, energy, water, utilities, and digital connectivity
- Municipal services, healthcare estates, education estates, and industrial infrastructure
- Asset management, engineering assurance, operations, and maintenance
- Technology, data governance, sustainability, procurement, and partnership functions

Learning Objectives

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



- Analyze portfolio baselines, service outcomes, dependencies, and capacity scenarios
- Evaluate resilience, decarbonization, circularity, inclusion, and flexibility objectives
- Prioritize digital use cases, data capabilities, and interoperability needs
- Compare renewal, retrofit, retirement, and new-build transition pathways
- Build investment sequences, governance gates, indicators, and adaptive triggers
- Apply an integrated roadmap method to a next-generation infrastructure portfolio

Course Agenda

Day 1: Portfolio Baseline and Outcomes

- Infrastructure Portfolio Baseline and Service-Outcome Map
- Cross-System Dependency and Interoperability Matrix
- Demand, Capacity, and Flexibility Scenario Set
- Resilience, Decarbonization, Circularity, and Inclusion Objective Framework
- Portfolio Assumption and Evidence-Gap Register

Day 2: Technology and Data Architecture

- Digital Infrastructure Capability Maturity Assessment
- Technology Use-Case Prioritization Matrix
- Sensor, Platform, and Data-Exchange Architecture Map
- Data Governance, Access, Quality, and Stewardship Charter
- Cyber-Physical Continuity and Dependency Screen

Day 3: Transition and Investment Sequencing

- Legacy-to-Future Transition Pathway Map
- Renewal, Retrofit, Retirement, and New-Build Option Grid
- Multi-Criteria Portfolio Prioritization Model
- Investment Dependency and Sequencing Roadmap
- Delivery Model and Capability Readiness Assessment

Day 4: Governance and Adaptive Performance

- Portfolio Governance and Decision-Gate Model
- Service, Carbon, Resilience, Inclusion, and Benefit Indicator Set
- Adaptive Pathway Trigger and Threshold Register
- Partnership, Market, and Supplier Ecosystem Map
- Assurance, Learning, and Portfolio Adjustment Cycle

Day 5: Portfolio Roadmap Practice

- Exercise: Validate Portfolio Outcomes and System Dependencies
- Exercise: Prioritize Technology and Data Capabilities
- Exercise: Sequence Transition and Investment Options
- Exercise: Build Governance Gates and Adaptive Controls
- Capstone Exercise: Next-Generation Infrastructure Portfolio Roadmap

Practical Exercises

The course uses suggested activities to connect portfolio evidence, transformation choices, investment sequencing, and adaptive governance.

- Suggested activity: map service outcomes, assets, dependencies, capacity pressures, vulnerabilities, and inclusion gaps across transport and utility systems.
- Suggested activity: rank digital use cases and data capabilities against resilience, carbon, circularity, interoperability, value, and readiness criteria.
- Suggested activity: compare renewal, retrofit, retirement, and new-build pathways, then sequence decisions around dependencies, delivery capacity, and uncertainty.
- Suggested activity: integrate governance gates, indicators, triggers, ownership, and review cycles into a Next-Generation Infrastructure Portfolio Roadmap.

FAQs

Who suits the next-generation infrastructure portfolio strategy course and what does it assume?

It suits infrastructure strategy, planning, asset, technology, investment, sustainability, and public-service teams and assumes participants can interpret portfolio plans, asset information, investment cases, and performance reports.

How does next-generation infrastructure portfolio strategy differ from sustainable project preparation?

Next-generation infrastructure portfolio strategy coordinates transformation across systems, assets, technologies, services, and investment waves, while sustainable project preparation develops the evidence and case for an individual project.

How are infrastructure technology investments prioritized across a portfolio?

Infrastructure technology investments are prioritized by comparing service value, interoperability, data readiness, resilience, carbon impact, lifecycle implications, delivery capability, dependencies, and uncertainty.



What makes an infrastructure portfolio roadmap adaptive?

An adaptive infrastructure portfolio roadmap defines pathways, decision gates, measurable indicators, trigger thresholds, review cycles, and alternative actions so leaders can adjust sequencing as evidence and conditions change.

What belongs in a next-generation infrastructure portfolio roadmap?

A next-generation infrastructure portfolio roadmap records outcomes, baselines, system dependencies, scenarios, technology and data choices, transition pathways, investment sequences, delivery responsibilities, governance gates, indicators, triggers, assumptions, and next decisions.

Conclusion

Participants take back a Next-Generation Infrastructure Portfolio Roadmap that connects service outcomes with assets, technology, sustainability, and investment choices. The roadmap clarifies dependencies, transition sequences, governance gates, and adaptive triggers across the portfolio. It enables decision teams to coordinate action while responding to new evidence, capacity constraints, and changing conditions.