



Advanced Waste Management and Circular Economy Training Course

4 – 8 January 2027
Kuala Lumpur

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Overview

Advanced Waste Management and Circular Economy Training Course is a one-week course for waste, sustainability, environmental, operations, procurement, and facilities functions who leave with a Circular Waste and Resource Transition Portfolio. Participants connect waste hierarchy decisions, material flow mapping, source segregation, recovery pathways, circular procurement, business models, data governance, and performance verification. Agile Leaders Training Center presents waste management and circular economy practice as an evidence-based resource transition discipline.

Who Should Attend

- Waste functions responsible for prevention, segregation, collection, recovery, and residual controls
- Sustainability functions designing circular resource initiatives and performance measures
- Environmental functions governing waste risks, records, contractors, and operating controls
- Operations and facilities functions managing material use and site waste flows
- Procurement functions setting circular requirements for suppliers, products, and services
- Strategy and innovation functions developing circular business model options

The course assumes participants already manage organizational material flows, waste operations, procurement, facilities, environmental controls, or sustainability initiatives and leaves out introductory environmental awareness, detailed treatment-plant engineering, and predetermined waste, cost, or emissions outcomes.

Departments and Industries

The course supports departments and industries that manage materials, products, facilities, suppliers, and post-use resource flows.

- Manufacturing, construction, logistics, and property operations
- Retail, hospitality, food processing, and consumer services
- Waste, environment, sustainability, and facilities departments
- Procurement, supply chain, product, and packaging functions
- Operations, engineering, quality, and contractor-management teams
- Strategy, finance, innovation, and performance functions

Learning Objectives

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



- Analyze organizational material flows and waste baselines
- Apply the waste hierarchy to prevention and recovery choices
- Compare reuse, repair, recycling, recovery, and disposal pathways
- Build circular procurement and supplier-control requirements
- Evaluate circular business models, economics, risks, and adoption barriers
- Design indicators, verification controls, and an implementation roadmap

Course Agenda

Day 1: Waste Baseline and Material Flows

- Waste System Boundary and Scope Charter
- Material Flow Mapping Method
- Waste Stream Characterization Register
- Baseline Data Quality and Uncertainty Log
- Stakeholder and Responsibility Map

Day 2: Prevention and Hierarchy Decisions

- Waste Hierarchy Decision Matrix
- Source Prevention Opportunity Assessment
- Segregation and Contamination Control Plan
- Reuse and Repair Feasibility Screen
- Residual Waste Risk Register

Day 3: Circular Pathways and Procurement

- Recycling and Recovery Pathway Evaluation
- Circular Procurement Requirement Library
- Supplier Take-Back and Reverse Flow Map
- Product Life Extension Option Matrix
- Circular Business Model Canvas

Day 4: Governance and Investment Cases

- Waste Contractor Governance Scorecard
- Circularity Indicator and Evidence Dictionary
- Lifecycle Cost and Value Sensitivity Model
- Implementation Risk and Control Matrix
- Benefits Verification and Reporting Plan



Day 5: Circular Transition Project Practice

- Exercise: Reconcile a Material Flow Baseline
- Exercise: Prioritize Prevention and Recovery Options
- Exercise: Draft Circular Supplier Requirements
- Exercise: Evaluate a Circular Investment Case
- Capstone Exercise: Circular Waste and Resource Transition Portfolio

Practical Exercises

The course uses suggested activities drawn from manufacturing, construction, hospitality, retail, and facilities settings.

- Suggested activity: map material inputs, products, by-products, waste streams, destinations, responsibilities, and evidence within a defined operating boundary.
- Suggested activity: compare prevention, reuse, repair, recycling, recovery, and residual options against technical, commercial, environmental, and control criteria.
- Suggested activity: translate circular goals into procurement requirements, supplier evidence, contract controls, and performance indicators.
- Suggested activity: assemble baseline, option, governance, economics, risk, verification, and roadmap artifacts in the capstone portfolio.

FAQs

Who suits advanced waste management and circular economy training, and what does it assume?

Advanced waste management and circular economy training suits experienced waste, sustainability, environmental, operations, facilities, procurement, supply-chain, and strategy personnel who already support material or waste decisions.

How does waste management and circular economy training differ from introductory recycling training?

Waste management and circular economy training examines prevention, material flows, procurement, business models, governance, economics, and verification across the resource system rather than concentrating only on recycling awareness or collection practices.

How is material flow mapping used in circular economy decisions?

Material flow mapping defines boundaries and traces inputs, products, by-products, waste streams, destinations, responsibilities, data quality, and losses so teams can locate intervention points and compare options.



What evidence supports circular procurement and supplier controls?

Circular procurement evidence may include product composition, durability, repairability, recycled content, packaging, take-back arrangements, recovery routes, supplier records, contract controls, and verified performance data.

How should circular economy performance be verified?

Circular economy performance should be verified against a defined baseline, consistent boundaries, documented calculation methods, data-quality checks, assigned evidence owners, and reviewable indicators.

Conclusion

The course connects waste baselines, hierarchy choices, circular pathways, procurement, business models, governance, economics, risk, and verification. Participants take back a Circular Waste and Resource Transition Portfolio containing decision tools and implementation artifacts. The portfolio helps teams prioritize interventions, assign controls, test assumptions, and govern the transition from waste handling toward circular resource management.