

International Training Programme on
“Circular Economy for Sustainable Development”

Course Content

Overview of Circular Economy and Policy Landscape	
	<ul style="list-style-type: none"> ☞ Definition and principles of circular economy ☞ Historical context and evolution ☞ Importance for sustainable development ☞ Analysis of national and international policies ☞ Case studies on successful policy implementations
Circular Economy in Municipal Solid Waste (MSW)	
	<ul style="list-style-type: none"> ☞ Overview of Municipal Solid Waste ☞ Composition and characteristics of MSW ☞ Challenges associated with landfilling and incineration ☞ Circular Approaches to MSW Management ☞ Waste hierarchy and reduction strategies ☞ Waste-to-energy and resource recovery ☞ Promoting recycling at the community level ☞ Zero-waste initiatives and their impact
Field Visit: Field visit to MSW recycling facilities	
Circular Design Principles	
	<ul style="list-style-type: none"> ☞ Cradle-to-cradle design philosophy ☞ Eco-design and sustainable product development ☞ Design thinking for circularity
Circular Economy in Wastewater	
	<ul style="list-style-type: none"> ☞ Wastewater Treatment in a Circular Context ☞ Circular water management systems ☞ Reuse and recycling of treated wastewater ☞ Innovations in Wastewater Treatment ☞ Emerging technologies for sustainable water treatment ☞ Closed-loop water systems in industries
Field Visit: Field visit to wastewater recycling facility	
Circular Business Models and Circular Economics	
	<ul style="list-style-type: none"> • Circular business models and success stories • Sharing economy and collaborative consumption • Product-as-a-Service (PaaS) • Circular supply chains and logistics • Economic benefits of circularity • Job creation and economic growth
Circular Economy in E-Waste	
	<ul style="list-style-type: none"> • Introduction to E-Waste • Environmental and health impacts of improper e-waste disposal

- E-Waste Management in a Circular Economy
- Extended Producer Responsibility (EPR)
- Recycling and upcycling of electronic components
- Case Studies

Field Visit: Field visit to E-Waste recycling facilities

Circular Governance Framework

- ☞ Roles and responsibilities of government in circular economy
- ☞ Policy Development for Circular Economy
- ☞ Regulatory Frameworks and Incentives
- ☞ Enforcement and Compliance
- ☞ Monitoring and Enforcement Mechanisms
- ☞ Compliance Challenges and Solutions

Circular Economy and Li-Battery

- ☞ Li-Battery Lifecycle
- ☞ Circular Design in Battery Technology
- ☞ Sustainable materials and manufacturing processes
- ☞ Recycling and repurposing of battery components
- ☞ Current Challenges and Future Innovations

Field Visit: Field visit to battery recycling facility

Stakeholder Engagement and Communication

- ☞ Multi-stakeholder collaboration for effective governance
- ☞ Public-private partnerships for circular initiatives
- ☞ Communication strategies for awareness and engagement
- ☞ Case studies on successful stakeholder engagement

Circular Economy and Vehicle Scrapping

- ☞ End-of-Life Vehicle (ELV) Management
- ☞ Circular approaches to vehicle recycling
- ☞ Material Recovery and Reuse
- ☞ Circular design in the automotive industry

Field Visit: Field visit to Vehicle scraping facility

Day-wise tentative Schedule

First Week	Topics
Day 1	Registration <ul style="list-style-type: none"> ☞ Inauguration ☞ Country presentation on the Digitalization in HRM ☞ Local market visit
Day 2	Overview of Circular Economy and Policy Landscape <ul style="list-style-type: none"> ☞ Definition and principles of circular economy ☞ Historical context and evolution ☞ Importance for sustainable development ☞ Analysis of national and international policies ☞ Case studies on successful policy implementations
Day 3	Circular Economy in Municipal Solid Waste (MSW) <ul style="list-style-type: none"> ☞ Overview of Municipal Solid Waste ☞ Composition and characteristics of MSW ☞ Challenges associated with landfilling and incineration ☞ Circular Approaches to MSW Management ☞ Waste hierarchy and reduction strategies ☞ Waste-to-energy and resource recovery ☞ Promoting recycling at the community level ☞ Zero-waste initiatives and their impact Field Visit: Field visit to MSW recycling facilities Circular Design Principles <ul style="list-style-type: none"> ☞ Cradle-to-cradle design philosophy ☞ Eco-design and sustainable product development ☞ Design thinking for circularity
Day 4	Circular Economy in Wastewater <ul style="list-style-type: none"> ☞ Wastewater Treatment in a Circular Context ☞ Circular water management systems ☞ Reuse and recycling of treated wastewater ☞ Innovations in Wastewater Treatment ☞ Emerging technologies for sustainable water treatment ☞ Closed-loop water systems in industries
Day 5	Field Visit: Field visit to E-Waste recycling facilities Circular Governance Framework <ul style="list-style-type: none"> ☞ Roles and responsibilities of government in circular economy ☞ Policy Development for Circular Economy ☞ Regulatory Frameworks and Incentives ☞ Enforcement and Compliance ☞ Monitoring and Enforcement Mechanisms
Saturday	Local Site Sightseeing

Sunday	HOLIDAY
Second Week	
Day 1	Circular Economy and Li-Battery <ul style="list-style-type: none"> ☞ Li-Battery Lifecycle ☞ Circular Design in Battery Technology ☞ Sustainable materials and manufacturing processes ☞ Recycling and repurposing of battery components <p style="text-align: center;">☞ Current Challenges and Future Innovations</p>
Day 2	Field Visit: Field visit to battery recycling facility Stakeholder Engagement and Communication <ul style="list-style-type: none"> ☞ Multi-stakeholder collaboration for effective governance ☞ Public-private partnerships for circular initiatives ☞ Communication strategies for awareness and engagement ☞ Case studies on successful stakeholder engagement
Day 3	Circular Economy and Vehicle Scrapping <ul style="list-style-type: none"> ☞ End-of-Life Vehicle (ELV) Management ☞ Circular approaches to vehicle recycling ☞ Material Recovery and Reuse ☞ Circular design in the automotive industry
Day 4	☞ Field Visit: Field visit to Vehicle scraping facility
Day 5	Feedback Session & Valedictory
Saturday	Local Site Sightseeing
Sunday	HOLIDAY