

Waste Management and Circular Economy

DAY 1

Introduction to Waste

Waste classification criteria

The waste management chain and resource allocation

The waste hierarchy – From production to final disposal

Definition of hazardous and non-hazardous waste

The waste management industry – Who are the stakeholders?

DAY 2

Waste Management - The Waste Generation Sectors

Domestic/Municipal waste – Treatment and applications

Commercial and industrial waste

Hazardous waste

Medical and toxic waste

Introduction to regulations and best practices

DAY 3

Environmental Implications

Environmental impact of waste management

Water, land, and air pollution

Difference between pollution & contamination

Air pollution and health impacts

Climate change – Greenhouse gas emissions

DAY 4

The Circular Economy Perspective

Definition according to the United Nations Environment Program (UNEP)

Sustainable consumption and production – The hotspots analysis tool

Raw materials global spread, use and depletion

Energy use

Water use and scarcity

DAY 5

The Risks Involved in Waste Management

Prevention of contamination

HAZID (HAZard IDentification)

HAZOP (HAZard & OPerability)

Landfill sites - The most common method of organised waste disposal

Environmental ethics