



# Institute for Capacity Development (ICD)

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## Waste Management course

### Course Objectives

On completion of the course, participants should be able to:

- Identify the industrial and domestic sources of waste and their characteristics
- Develop knowledge of waste treatment, disposal and remediation processes
- Understand the concepts of risk assessment and remediation standards
- Identify and apply ways of waste recycling
- Describe and share practical knowledge and technology of chemical, physical and biological treatment of hazardous waste
- Describe and be able to apply the current remediation processes and technologies
- Understand the criteria behind selection of treatment technologies and site remediation
- educate communities and stakeholders on best practices in waste management

### Target Groups

- Environmental Analysts and Impact Assessors
- Environmental Scientists and Engineers
- Project Analysts and Managers
- Environmental scientists
- Town Planners
- Rural and Urban Developers and Planners

### Course Outline

- General Management principles, skills and practices
- Understanding the generation of domestic and industrial Waste
- Waste types, Sources and quantities
- Waste problematic and waste management development
- Waste Decomposition
- Science of Composting
- Environmental Concerns and Controls
- Geology and Hydrology
- Hazard Communication Standard
- Waste collection and transportation
- Treatment technologies
- Methods of destroying, recycling and remediation of waste

- Chemical residuals disposing
- Toxicology
- The waste management behaviour of people
- Auditing and minimization of solid waste
- Waste composition and stabilization behaviour
- The role of landfill sites
- Pollution from landfill sites
- Risk assessment of landfill sites
- Landfill Design and Construction
- Landfill Operations & Regulations
- Industrial waste management strategies
- Municipal solid waste management strategies
- Strategy of dealing with special waste- hazardous and health care waste
- Decision support systems for Municipal Waste Management
- Cleaner productions: reduce, reuse and recycle
- Pollution prevention, waste minimization, reuse and recycling
- Risk assessment and remediation standards
- Biological, physical, chemical and thermal treatment of waste
- Hazardous, healthcare and other special waste
- Legislation, regulation and controls of waste management
- Emergency procedures in hazardous waste management

Dates: 14<sup>th</sup> – 25<sup>th</sup> August 2023

Duration: 2 Weeks

Course Costs: US\$2850/delegate

Venue: Kigali, Rwanda