

Specialization course : **Municipal Solid Waste Management in Developing Countries.**

eawag
aquatic research

EPFL

- <https://www.coursera.org/learn/solid-waste-management>
- bit.ly/course_eawag_mswm

62 videos // 5 weeks.

- **Wk 01 : Physical Elements of Solid Waste Management.**

The course begins with an overview of the current waste management situation in developing countries.

We will introduce the Integrated Sustainable Waste Management framework that will guide you through this course.

The modules of this first week deal with the physical components of municipal solid waste management.

- **Wk 02 : Governance aspect of Solid Waste Management.**

This week focuses on the governance aspects, also called the “soft” aspects of a municipal solid waste management system.

We will explain the different stakeholders and their roles and responsibilities as well as legislative issues and financial mechanisms.

- **Wk 03 : Organic Waste Treatment.**

We will start with the basics of two very common organic waste treatment technologies: composting and anaerobic digestion.

We then continue with technologies that are currently less common in practice: vermicomposting, waste processing using black soldier fly larvae, and thermochemical conversion.

- **Wk 04 : Special Waste fractions.**

The week covers special waste fractions, such as hazardous waste, healthcare waste, e-waste, plastic waste and construction and demolition waste. We will explain the key challenges and opportunities for an improved management in low- and middle-income settings.

- **Wk 05 : Strategic issues and Planning in Solid Waste Management.**

During the last week, the modules will focus more on strategic and planning aspects of MSWM.

Learn more about the impact solid waste management has on the environment, how to improve the solid waste management situation in your community or city, and how the topic of solid waste is addressed by the UN's Sustainable Development Goals.