

Module Title: Construction and Demolition Waste Management

Elective Module

Content:

Legislation and Policy Actions

All legislation relevant to the management of C&D W

Environmental Impact of Building Materials

Embodied energy of materials; impact on the local environment; toxicity of the material; life cycle assessment.

Nature and Source

Direct and indirect waste; site types and origins; composition; quantity; current recycling/reuse potential of building materials.

Construction and Demolition Waste Management Plans

International good practice; planning requirements; DoEHLG guidance document; company policy; demolition plans; site implementation; supplier agreements; sub-contractor management; role of waste management contractor; training; auditing; skip management; current markets; current disposal options; health and safety; reporting to local authorities.

Treatment of Construction and Demolition Waste

Waste permits; waste licenses; waste transfer facilities; landfills; treatment technologies; hazardous waste facilities; reporting to EPA.

Designing for Waste Prevention and Minimisation

Waste prevention and minimization; client, contractor and designer attitudes; proper maintenance of existing buildings; reuse of existing building structure; design flexibility; design for reuse and recycling; dimensional co-ordination and standardization; modular design; material selection and control.

Future developments

Potential future markets; 'smart' materials; use of eco-materials.