



E-learning course on construction and demolition waste:

Prevention and Recovery



Promotor:



Parceiros:



"(De)construct for Circular Economy" Project

Results:

- Municipal building regulations;
- Material passport model and pre-demolition audits guide;
- Mathematical model to optimize the location of CDW storage facilities in municipalities and the regional recycling network;
- Local, regional and national actors involvement- creation of a sustainable network for the processing, distribution and commercialization of CDW.



Promotor:



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E-learning course on construction and demolition waste: prevention and recovery

The e-learning course was organized under the (De)construct for Circular Economy project and aimed to promote education/awareness actions aimed at the various agents along the Construction and Demolition Waste (CDW) associated chain, supporting their interaction in order to promote a more sustainable value chain organization, in line with the principles of the circular economy.

The online course covered the 13 municipalities that integrate CIMBAL's region and the target audience were municipal technicians and other regional entities that develop their activities in the field of construction and demolition waste.



Promotor:



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Construction and Demolition Waste: Prevention and Recovery

Objectives:

This online course focuses on the problem of CDW and on the possibility of their integration into a value chain, divided into four thematic areas:

- 1** Introduction to CDW;
- 2** CDW Processing and Treatment;
- 3** Legislative Framework and Quality Management;
- 4** Use of CDW on site.

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Construction and Demolition Waste: Prevention and Recovery

Target Audience:

Companies and business associations, public administration, higher education and professional associations.

Duration:

4 weeks, with students studying the materials available independently.



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Construction and Demolition Waste: Prevention and Recovery

Module Details:

1st Module - Introduction to CDW

- Definitions and Terminology
- Classification
- Separation and Collection

2nd Module - Processing and Treatment of CDW

- Conventional demolition vs. Selective Demolition
- Reuse, Recycling and Valorization

3rd Module - Legislative Framework and quality management

- Legislation
- Regulation (recycled aggregates)
- Quality Assurance (processing and treatment)

4th Module - Use of CDW on site

- Barriers
- Use of CDW in Portugal (studies)
- Practical cases

Each module has a video class available on each topic, as well as study support materials. At the end of each one, there is also an assessment activity.

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Construction and Demolition Waste: Prevention and Recovery

This online course has already had three editions:

1

1st Edition:

February 1st to March 1st, 2018
The first edition had more than 300 applicants, with 219 having completed the course.

2

2nd Edition:

October 12th to November 12th, 2020
The course had 191 applicants, with 112 having completed the course.

3

3rd Edition:

February 15th to March 15th, 2021
Edition Reserved for Stakeholders of the Project (Des)Build for the Circular Economy
The course had 69 applicants, 38 of whom completed the course.

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Construction and Demolition Waste: Prevention and Recovery



The execution of this Massive Open Online Course (MOOC) was supported by the Faculty of Engineering of the University of Porto, for the preparation and elaboration of the content, as well as sound, image and video editing technicians.

The course is hosted on the UP Digital platform.



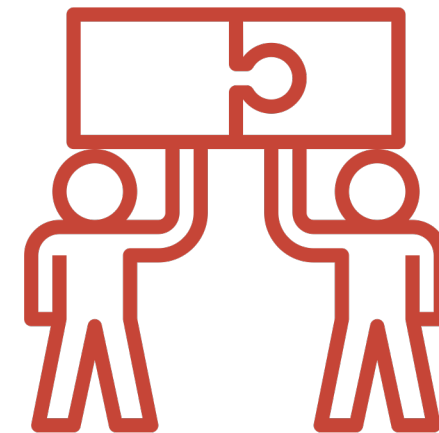
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Resources needed



The training is included in the (De)construct for Circular Economy project that presents a global budget of 587,801.60 euros, benefiting from a co-financing from EEA Grants at a rate of 85%.

Staff resources and training is a key aspect to deliver this project.

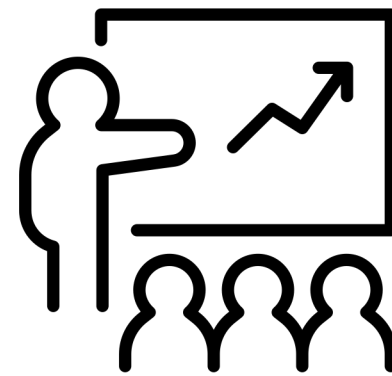
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Evidence of success



The on-line course was a success and a new edition is being considered since the legislation is changing.

This course had 69 trainees and supported their interaction in order to promote a more sustainable value chain organisation, in line with the principles of the circular economy.

This initiative enabled the training of partners involved in issues related to the management of Construction and Demolition Waste.

Promotor:



Parceiros:





Iceland
Liechtenstein
Norway grants



Thank you!

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Promotor:



Parceiros:

