

# TASK 01/A2. Determine the most appropriate teaching methods and the system process of assessment for adult learning on BIM and EPD

ADAPTED SENIOR TRAINING PROGRAM ON BIM METHODOLOGIES FOR THE  
INTEGRATION OF EPD IN SUSTAINABLE CONSTRUCTION STRATEGIES

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# INTRODUCTION

This report is part of the task "O1/A2 Determine the most appropriate teaching methods and the system/process of assessment for adult learning on BIM and EPD" which has consisted in identifying the most effective and efficient teaching methods, processes and tools for adult education.

This identification has been done by exchanging experts in the field, best practices and teaching methods best suited to the specific needs of the target groups. The outcome of this work ensures that the most appropriate and effective tools and approaches are taken into account in the development of the curriculum, in order to ensure that the curriculum on BIM technologies and environmental challenges is most effective in the main target group of architects at risk of exclusion due to their lack of competitiveness in the labour market, ensuring the most innovative and stimulating learning experience.

# SHORT DESCRIPTION OF THE CONTENTS

- Construction and Sustainable development.
- Environmental regulation and sustainability in construction sector.
- Innovative construction methodologies.
- Information technologies applied to construction sector.
- Methodologies for calculating environmental impact (LCA, CO2 emissions...).
- The use of BIMEPD methodology.

## SHORT DESCRIPTION OF THE CONTENTS

To this end, the following methodologies will be analysed within the reference regulatory framework for the study of a methodology for the placement of eco-efficient construction materials based on the use of new technologies:

1. Life Cycle Assessment (LCA).
2. BIM (Building Information Modelling).

# TEACHING METHODOLOGY

## OER PRODUCTION

Teachers and students will use the project's educational platform as the basis for the course, which can be found at the following link:

<https://bimepd.eu/oer/>

Course content and assessments will be housed on this platform, which can be modified and adapted according to the teacher's criteria and tailored to the specific needs of each group of students.

## Theoretical classes

Expositive classes of the theoretical contents. Resolution of doubts raised by students.

Student's work	Hours
On-site or Non-on-site:	2

## Practices in computer classroom

Search for information, management of databases and use of computer programs.

Student's work	Hours
On-site or Non-on-site:	2



# Tutorials

Resolution of doubts.

Student's work	Hours
On-site or Non-on-site:	2

## Work / Individual study

Study of the course in the Online Platform.

Student's work	Hours
Non-on-site:	18

## Official exams

Preparation, correction and review of written tests.

Student's work	Hours
Non-on-site:	1

# ASSESSMENT METHODOLOGY

## Activities

**Written test (70%).** Theoretical-practical knowledge acquired by the student will be evaluated.

**Work assessment in the online platform (20%).** Development and presentations of individual and group works will be evaluated

**Other assessment activities (10%).** Attendance and participation to classes of the course will be evaluated.