

CESBA MED Training Material

October 2019

Program priority: 2.1 - To raise capacity for better management of energy in public buildings at transnational level

Work package: 4 - Transferring

Activity: 4.2 - CESBA MED Training System

Deliverable: 4.2.1 - CESBA MED Training Material

Responsible Partner: iiSBE Italia R&D



The CESBA MED training material, developed and tested during the project, consist of a total of **8** training modules.

Module 1	The CESBA MED Generic Framework concept and the multicriteria assessment methodology
Module 2	The decision-making process
Module 3	Case studies analysis (integration of building and urban scales): focus on decision making
Module 4	The assessment criteria of the contextualized CESBA MED SBTool – Building Scale
Module 5	Use of the contextualized CESBA MED SBTool – Building Scale
Module 6	Case studies analysis (integration of building and urban scales): focus on technical issues
Module 7	The assessment criteria of the contextualized CESBA MED SNTTool – Urban Scale
Module 8	Use of the contextualized CESBA MED SNTTool – Urban Scale

The contents of each module are shortly presented below in this document.

The complete set of training material, available in **6 languages** (English, Italian, Greek, Croatian, Spanish and French) is available at the following link: <https://drive.google.com/drive/folders/1eyOWiAtAn1zRNWhzU9Xax7ltfaWclSWi?usp=sharing>

Module 1 - CESBA MED Generic Framework concept and the multicriteria assessment methodology

This module aims to present the basic concepts of sustainability in urban areas and of the assessment systems for the built environment focusing in particular on the CESBA MED Assessment Methodology, Generic Framework (Building and Urban Scale) and contextualization process.

Content:

- Sustainability of urban areas
- The CESBA MED project: background information, objectives, methodology, deliverables
- Introduction to assessment systems for the built environment
- Basic overview of CESBA MED Assessment Methodology
 - o basic definitions and structure of the SBEMethod
 - o the assessment procedure in the SBEMethod
 - characterization step
 - normalization step: assignment of a score to indicators' value
 - aggregation step
- Structure of the CESBA MED Generic Framework Building Scale

- issues, categories and criteria
- physical boundaries
- time boundaries

- Structure of the CESBA MED Generic Framework Urban Scale
 - issues, categories and criteria
 - physical boundaries
 - time boundaries

- Contextualization process:
 - Selection of the active criteria
 - Benchmarking
 - Weighting

Module 2 - The decision-making process

This module aims to present how to implement a decision- making process based on CESBA SBTool and SNTTool to set up high quality energy retrofitting/new construction projects as part of sustainable urban development plans.

Content:

- Model of decision-making process for sustainable urban areas and public buildings
 - Initiation
 - Preparation
 - Diagnosis
 - Strategic definition
 - Setting Targets
 - Setting constraints and restrictions
 - Decision Making
 - Creation of retrofitting scenarios
 - Retrofit scenarios assessment and raking
 - Retrofit concept
 - Decision making process for new urban developments

Module 3 - Case studies analysis

This module, addressed to decision- makers, aims to present the choices made locally for the contextualization of CESBA Tools and the motivations behind them. The presentation will be made by analyzing one or more case studies related to the territory. The case studies analysis focuses mainly on decision-making aspects. Each territory develops its own case study. A common template is provided for the presentation of the case study.

Content:

- Presentation of the Local SNTTool and SBTool
- Case study presentation

Module 4: The assessment criteria of the contextualized CESBA MED SBTool – Building Scale

This module aims to give a detailed presentation of the assessment criteria of the CESBA MED SBTool – Building Scale. For each territory the presentation concerns KPIs and locally selected assessment criteria. For each criterion the intent, the assessment methods and the main elements that characterize the corresponding indicator are presented.

Content:

- For KPIs and locally selected assessment criteria, presentation of the following elements:
 - o Intent
 - o Indicator
 - o Unit of measure
 - o Information sources
 - o Assessment method

Module 5: Use of the contextualized CESBA MED SBTool – Building Scale

This module aims to present how to calculate in practice the indicators of the CESBA MED SBTool – Building Scale. For each territory the presentation concerns KPIs and locally selected assessment criteria. For each indicator an example of calculation and an exercise will be included. The module also includes the explanation of score assignment and aggregation methods.

Content:

- For KPIs and locally selected criteria, presentation of three elements:
 - o assessment method : illustrating the calculation step by step;
 - o example of calculation: applying the calculation steps to a case study;
 - o exercise: calculation exercise to be carried out by the participants.
- Scores assignment: method and examples of calculation;
- Scores aggregation: method and examples of calculation;

Module 6 : Case studies analysis

This module, addressed to technicians (technical coordinators and area experts), aims to present the choices made locally for the contextualization of CESBA Tools and the motivations behind them. The presentation will be made by analyzing one or more case studies related to the territory. Each territory develops its own case study. A common template is provided for the presentation of the case study.

Content:

- Presentation of the Local SNTTool and SBTool
- Case study presentation

Module 7: The assessment criteria of the contextualized CESBA MED SNTTool – Urban Scale

This module aims to give a detailed presentation of the assessment criteria of the CESBA MED SNTTool – Urban Scale. For each territory the presentation concerns KPIs and locally selected assessment criteria. For each criterion the intent, the assessment methods and the main elements that characterize the corresponding indicator are presented.

Content:

- For KPIs and locally selected criteria, presentation of:
 - o Intent
 - o Indicator
 - o Unit of measure
 - o Information sources
 - o Assessment method

Module 8: Use of the contextualized CESBA MED SNTTool – Urban Scale

This module aims to present how to calculate in practice the indicators of the CESBA MED SNTTool – Urban Scale. For each territory the presentation concerns KPIs and locally selected assessment criteria. For each indicator an example of calculation and an exercise will be included. The module also includes the explanation of score assignment and aggregation methods.

Content:

For KPIs and locally selected criteria, presentation of 3 elements:

- assessment method : illustrating the calculation step by step;
- example of calculation: applying the calculation steps to a case study;
- exercise: calculation exercise to be carried out by the participants.

Scores assignment: method and examples of calculation;

Scores aggregation: method and examples of calculation;

The English generic version contains only KPIs presentation. The local versions of training materials, include the presentation of the locally selected criteria.