

The educational materials are available into the **educational elearning resources centre** according to the proposed developing scheme: **a modular training catalogue made up of three different areas.**

### BASIC TRAINING

- **Cultural contents:** the main concepts and innovative aspects that are involving the building area regarding the energy efficiency and sustainable building in order to define the cultural and legislative framework.
  - **The concept of nearly Zero Energy Building (nZEB), passivhaus and sustainable building**, from the definition to the recognition of the main features.
  - **The legislative framework** at local, national and European level about energy efficiency and sustainable building.
  - **The voluntary certification systems of the environmental sustainability**, such as LEED, BREEAM, ITACA, etc. and the emerging professional workers in the green building area.
  - **Energy efficiency and sustainable building market trends.**



### PROCESS TRAINING

- **Technical contents:** specific in-depth analysis about emerging procedures, technologies and products of the market, in order to define the innovation potentialities compared to the present building approach.
  - **The innovation into the building process**, the implementation of procedures aimed at the check of the building organism quality from the project to the building, realized by other people not involved into the project and building process.
  - **Innovative building technologies**, non conventional technologies, for the opaque building cover and the transparent one.
  - **The evaluation of the sustainability of building materials and components.**
  - **Innovative system technologies (non conventional)**, condensation hot water heater, heat pump, multi-purpose machines, thermodynamic recovery refrigerating machines, absorption heat pumps, air-conditioning, hot sanitary water, high efficiency lighting and energetic systems which use renewable energy.
  - **Tools and methods for the efficient building management**, Building Management Systems (BMS), Energy Management Systems (EMS), Building Automation and Control Systems (BACS), domotic systems, consume record systems, etc., as regulation, management and control systems of the building performance in the training phase.
  - **The sustainable management of the construction site.**
  - **Tools and methods to verify the performance in progress** of the building components, of the building envelope, of the system components and plants.

### PRODUCT TRAINING

- **Professional contents:** competences related to the use of innovative materials, technologies, specific building systems in specific building procedure considered strategic for the energy efficiency and sustainable building.

Over the **e-learning**, where management training materials are placed, the project I-Town suggests an **active learning methodology** that involves the participants into group work about study cases, in workshops with companies of the sector, in autolearning tests and in field tests, in the construction site and in the training lab at the building schools.

To reach this goal, the project I-Town considers as very important the **TEACHERS' TRAINING** through the development of

- **Cross contents:** competences connected with the training and communicative, the training management and organization, the resources management, the problem solving, the preparation of support learning materials, communication techniques and learning evaluation.

**I MATERIALI DIDATTICI DISPONIBILI SULLA PIATTAFORMA E-LEARNING  
LEARNING MATERIAL AVAILABLE ON E-LEARNING PLATFORM  
CIASCUN MODULO PREVEDE/EVERY MODULE PROVIDES**

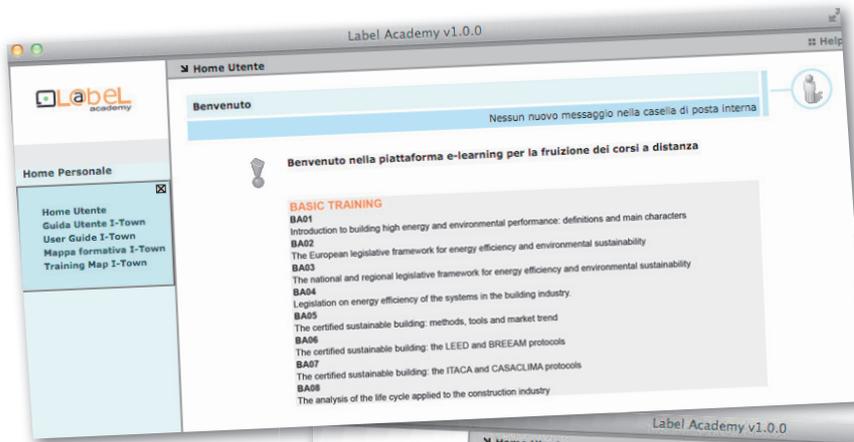
**Agenda**

Slides delle lezioni/Lesson's slides

Video lezioni/Video lessons

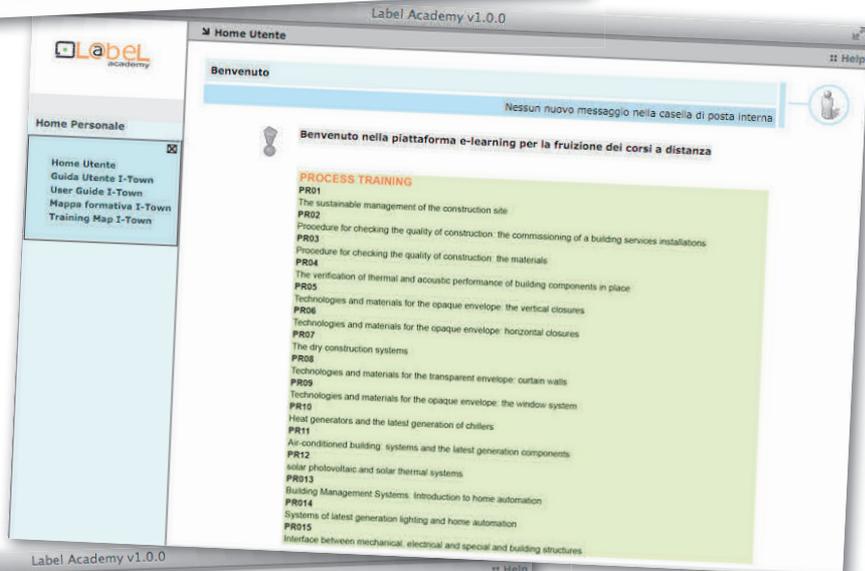
Materiali di supporto/Support materials:

- *Schede didattiche sui casi studio/Didactic sheets on case studies*
- *Materiale per esercitazioni in aula o workshop di cantiere/Material for classroom exercises or building site workshop*
- *Schede didattiche con sequenze applicative/Didactic sheets with application sequences*
- *Glossario/Glossary*
- *Test di autovalutazione/Self-assessment test*

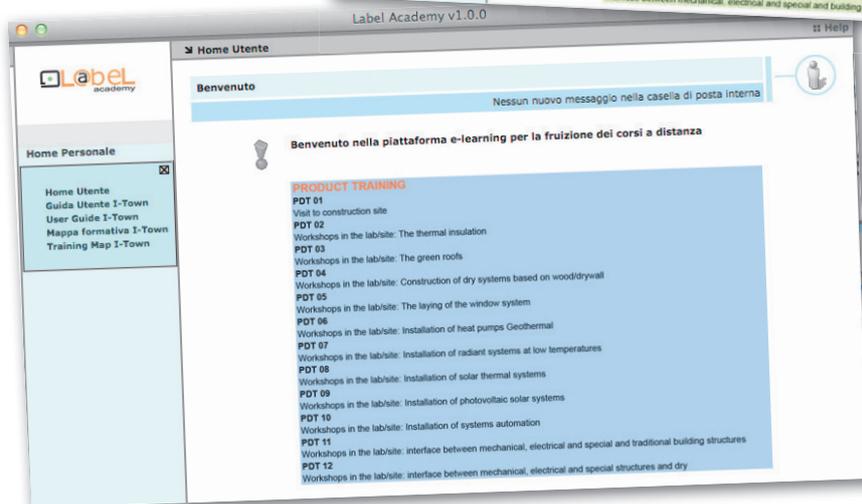


**FORMAZIONE DI BASE  
BASIC TRAINING**

**FORMAZIONE DI PROCESSO  
PROCESS TRAINING**



**FORMAZIONE DI PRODOTTO  
PRODUCT TRAINING**



[I-TOWN.LABELACADEMY.COM](http://I-TOWN.LABELACADEMY.COM)

