



## EEE: Energy Efficiency Expert

Submission n°: 2020 - 1 - IT 01 - KA 202 - 00837 5

### ABOUT THE PROJECT

The goal of the EEE project is to develop a VET training able to transfer digital, green, entrepreneurial, and financial skills directly impacting the development of more energy-efficient buildings.

### WHO IS IT FOR?

This project is for VET trainers, consultants, coaches of SMEs/enterprises and engineers and architects, technicians (electricians or surveyors) and small and medium-sized entrepreneurs in the construction sector.

### OUR WEBSITE

For all the latest updates, feel free to visit our website at

<https://eeexpert-project.eu/>

### THE CONSORTIUM

*Coordinator*



**Politecnico  
di Torino**

*Partners*



### GET IN TOUCH



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*The IO1 had to provide the following data pertaining to the professional figure:*

- *Identification of the technical, digital skills/mindset it should possess;*
- *Identification of the entrepreneurial and financial skills it should possess;*
- *Definition of a general professional profile and its matching with identified knowledge / skills / competences;*
- *(Possible) definition of sub-profiles and their pairing with specific knowledge / skills / competences;*
- *Matching the skills set identified with the VET education offer to create a CV complementary to those already available.*

## Intellectual Output 1: CV Definition of the Energy Efficiency Expert in the construction sector

The 1<sup>st</sup> output of the project consisted of a comprehensive document outlining the competences needed for an energy efficiency expert among the technical, digital, entrepreneurial, and financial skills selected by the partnership. Moreover, the partnership had to discuss the possibility of defining sub-profiles in consideration of national or other peculiarities of their target groups. IO1's main intent was to define a professional profile that could easily conjugate technical knowledge/skills/competences and management/financial skills/mindset. The IO1 aimed at taking into consideration Directive 2012/27/EU on Energy Efficiency that includes training and education, such as energy advisory programmes, that lead to the application of energy-efficient technology or techniques and have the effect of reducing end-users' energy consumption.

## Results of Intellectual Output 1

- **10 EEE Profiles,**
- **22 Macro Activities (divided into 117 Activities and 72 Micro Activities),**
- **52 Knowledge,**
- **27 Hard Skills,**
- **15 Soft Skills,**
- **37 Competences,**
- **16 Tags (with 132 possible sub-categorizations).**

The EEE CV framework was developed through a process of collaboration between experts of the six partners of the project and with the contribution of many stakeholders from 5 different European countries.

To define common European based Energy Efficiency Expert profiles, a qualifications frame has been carried on, including the application of the European standards and norms. Specifically, **10 Energy Efficiency Experts profiles have been identified and classified** according to 5 different Tags (*Type of work, Professional sector, Educational level, Work experience and Professional qualification*), and, specifically, are:

- *EEE in BACS installation and maintenance,*
- *EEE in Energy auditing and certification,*
- *EEE in Energy economics,*
- *EEE in Energy management,*
- *EEE in Energy performance simulation,*
- *EEE in Energy policy and urban planning,*
- *EEE in Green and low energy buildings design,*
- *EEE in HVAC systems and RES design*
- *EEE in HVAC systems inspection and commissioning,*
- *EEE in HVAC systems installation and maintenance.*

**The entire spectrum of activities (and processes) that characterize the world of energy efficiency in buildings has been divided into 22 Macro Activities.** Each of the 10 profiles has been associated respectively from 1 to 5 of these 22 Macro Activities.

The 22 Macro Activities have been classified according to 7 different Tags (Framework, Object, Theory field, Scale, Criteria Constraints, Standard and Implementation context), and are the aggregation of **117 Activities and 72 Micro Activities** (which constitute the different phases of a single process).

For each Macro Activity it has been defined which Knowledge, Skills, and Competences were considered fundamental for its development. In fact, the Macro Activities are also the connection point between the 10 EEE Profiles and the **52 Knowledge, 27 Hard Skills, 15 Soft Skills and 37 Competences identified by the partnership in the field of energy efficiency for the building sector.**

Each of these 131 competences has been classified according to 10 different Tags (*KSC, Framework, Object, Theory field, Scale, Domain, Method/Tool, Criteria Constraints, Implementation context and Proficiency level*).

Therefore, in summary, by the partnership 10 profiles of Energy Efficiency Experts have been identified that can easily combine technical knowledge / skills / competence and management / financial skills / mindset, specifically, regarding environmental sustainability (green buildings), automation and control (smart buildings), cost-effectiveness (cost-optimal buildings), digital tools and innovative instruments for the construction sector; with an entrepreneurial attitude and financial knowledge.

**Features that if owned in their entirety by a professional in the energy sector, would allow him to approach customers with a holistic vision and propose to them more innovative solutions and respond to each specific need.** This would consequently lead each individual professional to have a potential effect not only at the local or national but also international level.



## ***CV Framework: Elements of innovation***

*a) the **breadth of the spectrum of expert profiles** covered, which span all the different areas of energy efficiency in Europe;*

*b) the **holistic approach to define the knowledge, skills and competences** of the EEE profiles;*

*c) the **transversality of the various activities** presented, which therefore allows this tool to reach multiple professional categories;*

*d) the **emphasis on the latest European directives and international standards**;*

*e) the **high flexibility of the CV structure itself**, obtained by classifying/clustering profiles, activities, and skills according to labels/categories;*

*f) the **entire content of the CV Framework has been included in a web app**, which will allow users to freely navigate within the activities, knowledge, skills, and competences associated with the EEE profiles;*

[\*\*CLICK HERE\*\*](#)  
[\*\*to view the CV of the 10 Energy Efficiency Experts!\*\*](#)

***During the initial phase of the project, the partnership also calculated its own Carbon Footprint***

[\*\*CLICK HERE\*\*](#)  
[\*\*to see the results and some useful tips to reduce your environmental impact!\*\*](#)

# Next Steps

The documentation produced for the IO1 will remain available on the project website and on the web app as open source to allow the interested energy efficiency trainers and workers its consultation after the project conclusion. The partnership will maintain full access to the documents, with the possibility to update the EEE profiles with newly discovered/developed knowledge/skills/competence and with the possibility to integrate other professional profiles to the existing list. Furthermore, since the results of IO1 constitute the starting point on which to define the training path object of IO2, it will easily happen that already during the continuation of the project what is produced will be the result of further refinements and updates.

## Intellectual Output 2: definition of the learning methodology and creation of the training course content

The partnership decided to **develop training dedicated to trainers** to increase their ability to transfer knowledge on energy efficiency and innovative financial instruments to professionals in the construction sector.

The content of this training has been designed, and is being implemented in recent months by the partnership, **considering the competences defined in the IO1** and will cover three main themes:

- 1) **Technical / digital content**, including environmental sustainability, automation and control, cost-effectiveness, digital tools and innovative instruments for the construction sector;
- 2) **Entrepreneurial content**, mainly based on the ENTRECOMP framework and adapted to the construction sector;
- 3) **Financial content**, focusing on access to funding for energy-efficient buildings and specific financial instruments for energy efficiency.

## Intellectual Output 3: creation of an interactive geographical map of the best cases of energy efficiency practices in the European construction sector

The partnership in recent months is also carrying out the 3rd intellectual result of the EEE Project, which consists of the creation of a repository of best practices and statistics/experts' interviews applied to enterprises in the EU, to use them as showcases of sustainable procedures which can have a potential effect at local/national and international level to make homes and buildings less polluting. In fact, the IO3 aims to:

- 1) **raising awareness** of the objectives of the Green Deal;
- 2) to **improve the institutional ecosystem** by identifying best practices and replicable models;
- 3) **support users interested in becoming energy-efficient construction contractors** in promoting their professional development and proposing innovative practices to their customers.

[CLICK HERE](#)  
[to see the best energy efficiency](#)  
[cases identified so far!](#)