Implementation of the legislation on mutual recognition of professional qualifications for architects and engineers

## Recognition of previous learning for engineers

### Prof. Hristina Spasevska

President of the Engineering Institution of Macedonia

Ss Cyril and Methodius University in Skopje
Faculty of Electrical Engineering and Information Technologies
<a href="mailto:hristina@feit.ukim.edu.mk">hristina@feit.ukim.edu.mk</a>



www.feit.ukim.edu.mk

## **Outline**

- Qualification Framework and recognition of previous learning
- EU Status on validation of nonformal and informal learning
- Status in Macedonia on recognition and validation of nonformal and informal learning
- Methodology of recognition of previous learning
- Survey from certified trainers for validation of nonformal and informal learning
- Conclusions



## **Qualification Framework**

RECOGNITION OF PRIVOUS LEARNING is: Part of the life-long learning concept

New approach of certification of skills

## **GOAL**

To obtain the equal Diploma/Serificate without attendance of training and for shorter time

### FORMAL LEARNING

Accredited education program

Diploma

### **PRIVOUS LEARNING**

### NONFORMAL LEARNING

Defined education programme
Diploma/Serificate

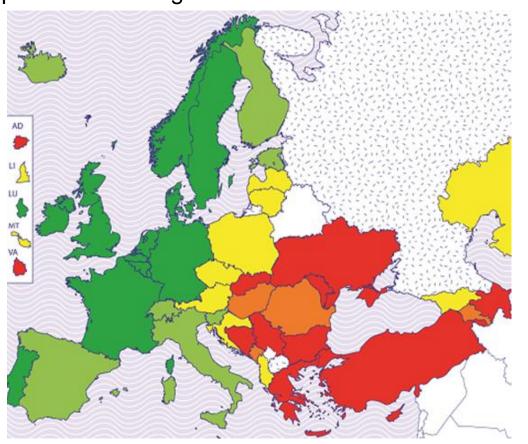
### **INFORMAL LEARNIG**

Self-directed learning or learning from experience Not Diploma/Sertificate



## EU Status on validation of nonformal and informal learning

2012- EU Council recommendations: not late than 2018 - EU Member States to enable individuals to obtain full or part of qualification through validation of previous learning



2012*	2009**
13	19
7	4
11	9
4	10
12	6

- **BFUG Questioner**
- \*\*) Rouhvagers Deane and Powels

National procedures are demonstrably applied in practice	Work at drawing up national procedures
National procedures are not demonstrably applied	No national procedures for recognition

National procedures are not applied

Not data available

# Status in Macedonia - Metrology for RVPL

## **METHODOLOGY**

for recognition and validation of nonformal and informal learning









Prof. Hristina Spasevska Ass. Prof. Lihnida S. Georgievska

BUILD UP Skills BEET - Builders' Energy Efficiency Training

IEE/13/BWI/682/ SI2.680171 - Intelligent Energy Europe



Проектот е финансиран од Европската Унија This project is funded by The European Union



# Project BUILD UP Skills BEET



**Builders' Energy Efficiency Training** 

IEE/13/BWI/682/ SI2.60171 – Intelligent Energy Europe

#### **RESULT**

Methodology for recognition and valorization of nonformal and informal learning

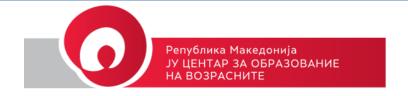
#### **OUTCOME**

**200** trained and certified trainers for recognition and valorization of nonformal and informal learning in energy efficiency



# Metrology is recognized by...





"Roadmap foe implementation of the system for validation of nonformal and informal education in the Republic of Macedonia " (2015-2017) C1-ETF CTP-QUALF WP16-40-18 QUAL / EU Funded Project Centre for Vocational Education, Education & Training Foundation (ETF)

"Further Improvement of the System for Development and Implementation of the National Qualifications Framework" (2016-2017) MK 13 IPA SO 02 15 (MK 13 IB SO 02) / EU Funded Twinning Project Ministry of education and Science of the Republic of Macedonia, Poland, England, Croatia

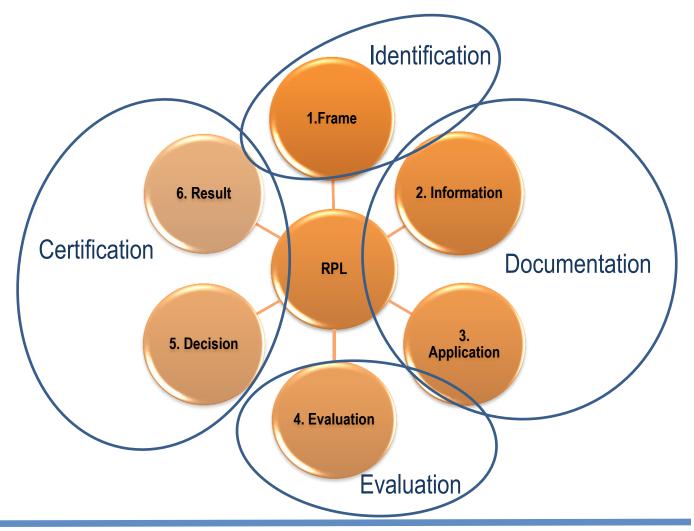






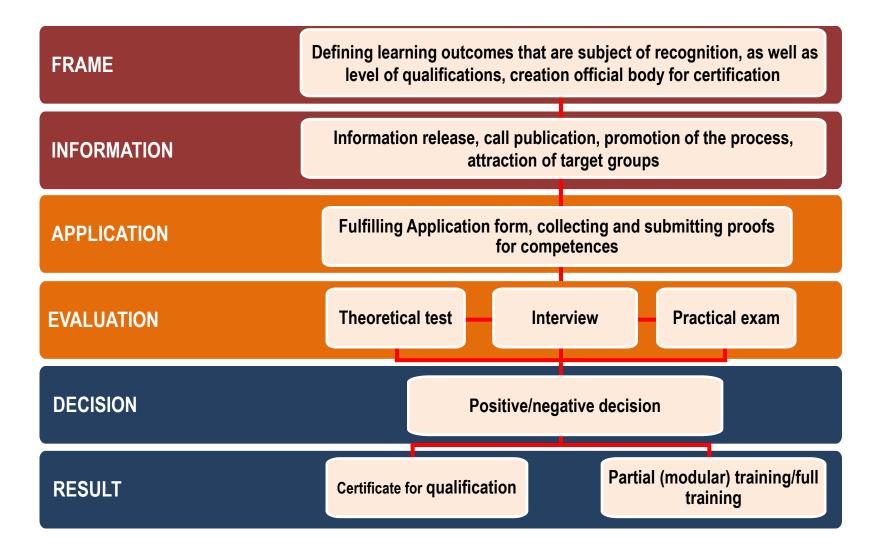
# Phases for recognition of previous learning

Six phases comparable to ETF recommendations for 4 stages





# Phases for recognition of previous learning





## Portfolio content

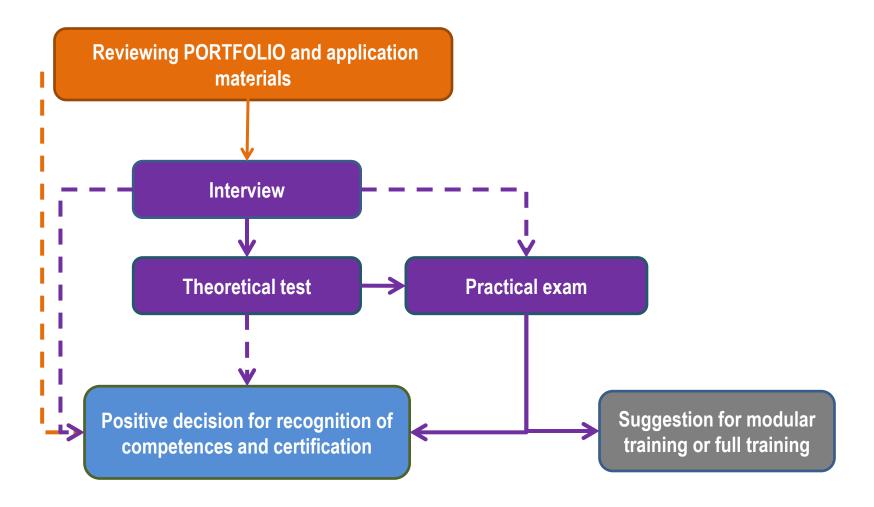


- 1 Application form
- 2 Statement/proof for working experience
- 3 List of proofs for competence:
  - Certificates from previous non-formal training
  - Proofs for working experience
  - Referent list of projects
  - List of skills
  - List of working tasks and chores
  - Photo and video material
- 4 | Agreement for involvement in recognition



## Phases of evaluation and certification

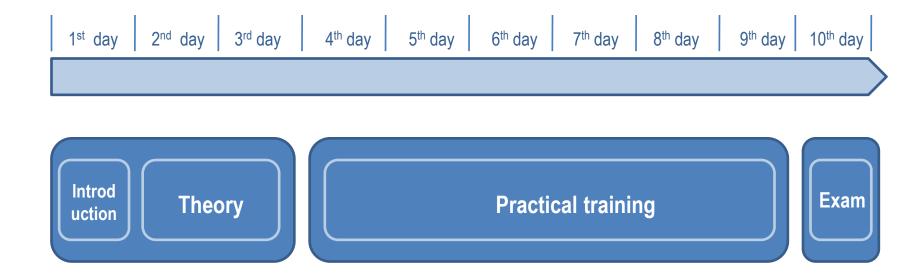
All paths are possible to certification!!





# **Training**

For candidates who <u>don't meet</u> the requirements for certification through recognition of previous learning





# Recognition of previous learning timing

FRAME

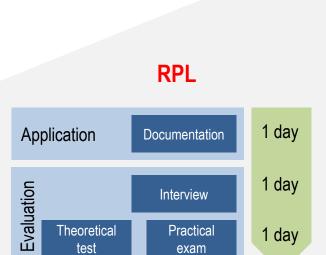
**INFORMATION** 

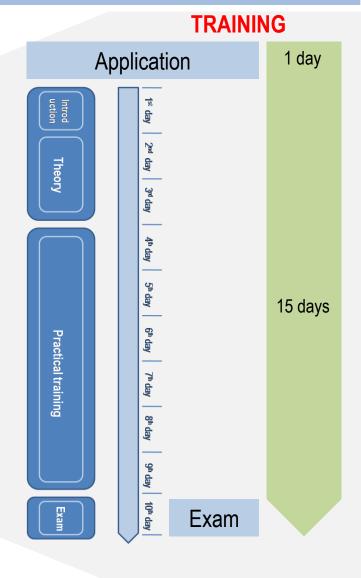
**APPLICATION** 

**EVALUATION** 

**DESSISION** 

**RESULT** 



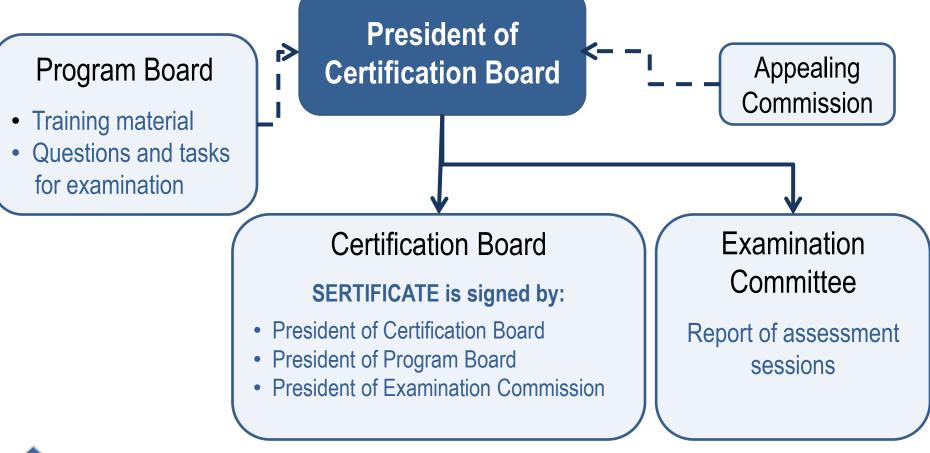




# **Certification Body structure**

Quality control & Quality assurance :

Certification Body is organized according to EN ISO/ICE 17024:2004





## **Certificate**





Обука на градежните работници за енергетска ефикасност BUILD UP Skills BEET - Builders' Energy Efficiency Training



#### ДОДАТОК НА СЕРТИФИКАТ

за Инсталатер за греење, ладење и вентилација, со вештини за имплементација на мерки за енергетска ефикасност

#### CERTIFICATE SUPPLEMENT

for Installer of systems for heat, ventilation and air-conditioning, with skills for implementation of energy efficiency measures

#### СОДРЖИНА НА ПРОГРАМАТА ЗА ОБУКА

- Енергетска ефикасност и обновливи извори на енергија во високоградбата
   Преглед на опремата, материјалите и
- системите за греење, ладење и вентилација

  3. Практична настава за монтирање на опрема и
- системи за греење, ладење и вентилација
- Практична настава за експлоатација и одржување на опрема и системи за греење, падење и вентипација
- 5. Практична настава за подно, зидно и таванско греење и авадукт системи

#### Времетраење на програмата: 80 часови

(теорија 24 часа, практична настава 48 часа и проверка на знаењата 8 часа)

#### TRAINING PROGRAMME SUMMARY

- Energy efficiency and renewable energy sourcesin building sector
  - An overview of the equimpment, materials and systmesfor HVAC
- 3. Practical training for installing of an equimpment materials and systmes for HVAC
- Practical training for exploitation and maintenance of equimpment, materials and systmesfor HVAC
- Practical training for floor, wall and ceiling heating and avaduct systems

#### Training duration: 80 training hours

(theory 24 hours, practice 48 hours and ex am 8 hours)

#### СТЕКНАТИ ЗНАЕЊА, ВЕШТИНИ И КОМПЕТЕНЦИИ

- . Општо знаење за енергетска ефикасност и обновпиви извори на енергија во високоградбата
- Општо знаење за опремата, материјали системите за греење, ладење и вентилација
- Вештини за монтирање на опрема и системи за греење, ладење и вентилација
- Вештини за експлоатација и одржување на опрема и системи за греење, падење и вентипација

#### ACQUIRED KNOWLEDGE, SKILLS AND PROFESSIONAL COMPETENCES

- . General knowledge for energy efficiency and renewable energy sources in building sector
- General knowledge for an equimpment, materials and systmes for HVAC
- Skills for installing of an equimpment materials and systmes for HVAC
- Skills for exploitation and maintenance of equimpment, materials and systmes for HVAC

#### Претседател на испитна комисија/

Chairman of Examination committee



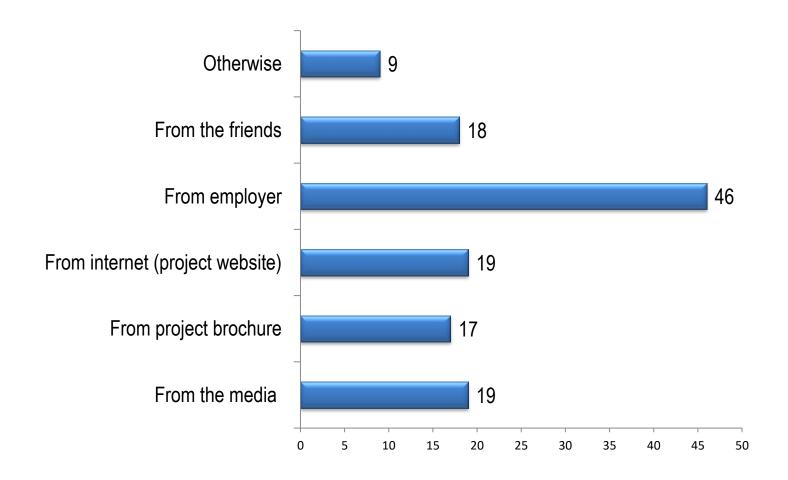
Проектот е финансиран од Европската Унија This project is funded by The European Union

IEE/13/BWI/682/ SI2.680171 - Intelligent Energy Europe



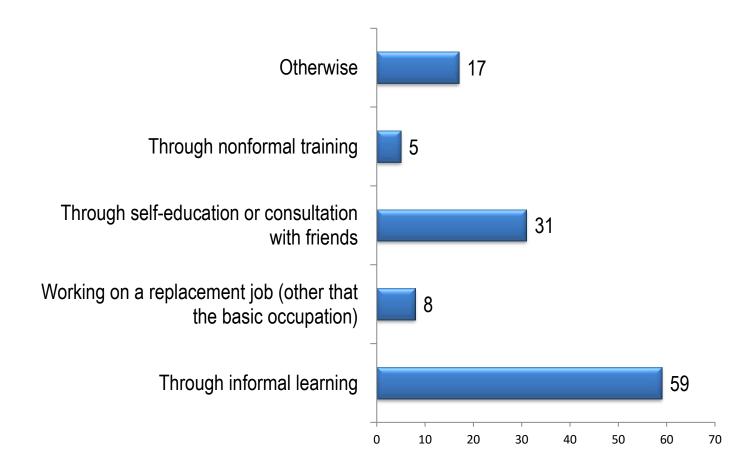
www.feit.ukim.edu.mk

# How did you learnt about recognition and validation of prior learning acquired in non-formal and informal education?



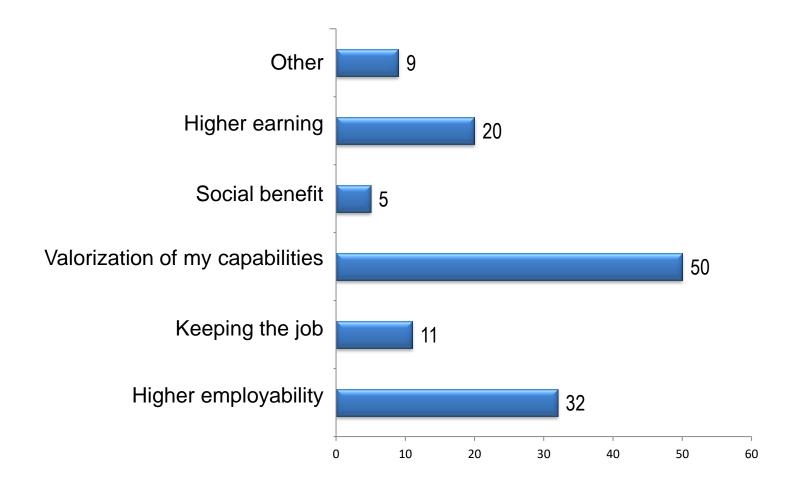


# How do you obtain your professional qualifications that are subject of recognition and validation?



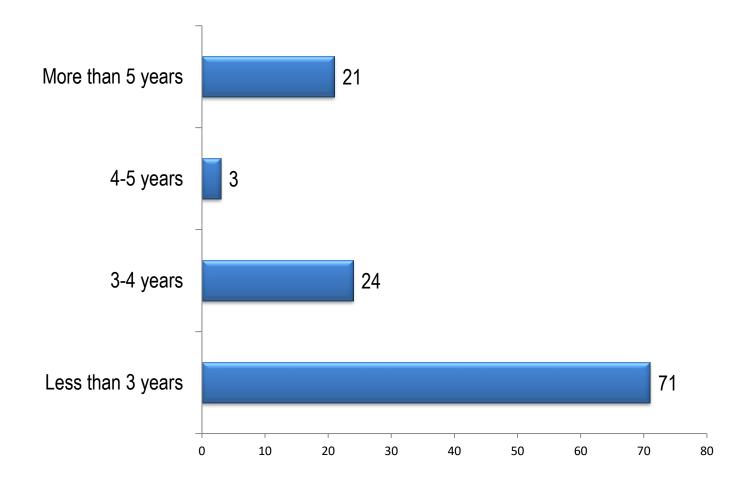


# Way you decide to involve in the process of recognition of previous learning?



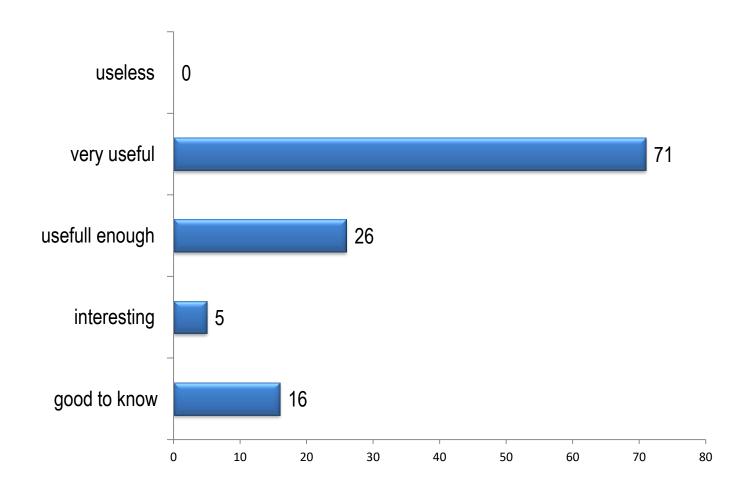


# How much time was required to gain the knowledge, skills and competencies that are subject to recognition and validation?



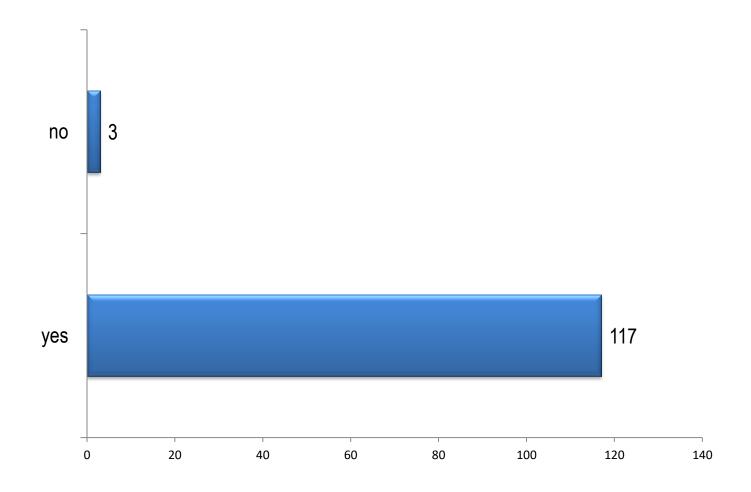


### How do you evaluate this opportunity offered by the project?



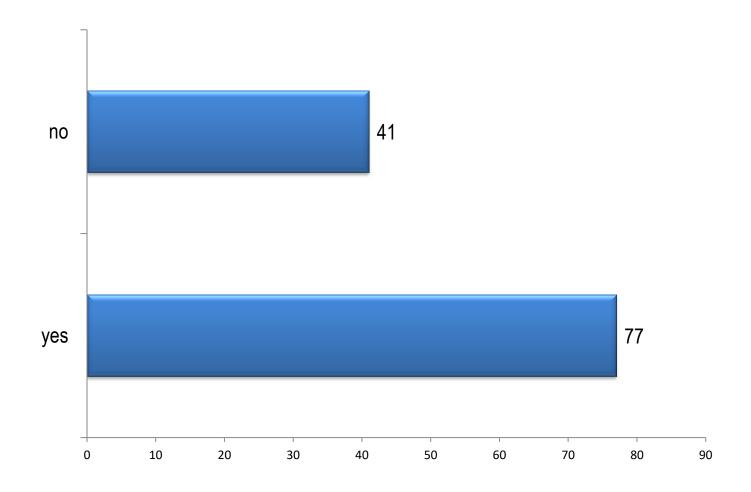


# Were the information about the process of recognition and validation sufficient and clear?





# Are you interested for recognition and validation of another qualification?





## **Conclusions**

- Recognition of prior learning is new approach of certification of skills and offer:
  - ✓ social recognition and/or validation of knowledge and competencies acquired outside the formal education system,
  - opportunity to gain certification for a complete qualification, or only for separate defined parts of a formal qualification,
- Duration of certification by RPL is short vs. training.
- The received certificate is identical to the certificate of training,
- RPL is avoiding unnecessary training, loss of time and expenses.



# Thank you for your attention.....



BUILD UP SKILLS

ENERGY TRAINING FOR BUILDERS





**BUILD UP Skills BEET** 

