7th EU Exchange Meeting BUILD UP Skills

BUILD UP Skills QualiShell

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National Qualification Scheme for Construction Workers to Ensure High Performance Building Envelopes



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Context – IEE BUILD UP Skills

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INTELLIGENT ENERGY EUROPE

Main elements: multi-stakeholders platforms

- Need analysis for workers and skills, EE & RES Pillar I
- Endorsed national roadmap to 2020+
- New / Upgraded qualification schemes

Pillar II

on-site workforce

further education

all **building** types

FU Exchange activities

BUILD UP Skills România

2011 ← **R®BUS** → 2013



Qualification Platform & Roadmap EE, RES \rightarrow 2020

Pilar I

Ellaboration and implementation of **Needs:** 2 national qualification schemes:



✓ installers of high efficiency thermal insulating windows systems



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> **Ensuring high quality installation of very** efficient building envelope components

Embedding appropriate knowledge and skills in the relevant occupations (EE+RES)



Fostering the evolution of national qualification system and in the vision of key stakeholders in the construction sector

... Train to nZEB – Building Knowledge Hubs (H2020)











Team, objectives and validation

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National Qualification Platform (CATALYST)

National Consultation Committee

Occupational analysis → detailed definition of competencies

+Procedural framework

Develop + validate 2 national QS:

- Installers of opaque insulation,
- Installers of insulating windows.

Flexible mechanisms > implementation of QS

Promotion partnerships EDU –IND

Raise awareness + effective communication process (training system & construction sector)



Centrul National de Dezvoltare a



NCC

MDRAP

ME-DE

MMFPS

ANOFM

ARACO

OAR

CCIB

UTCB

FGS

BPIE

IDRU

APFFP

AREC

ANCER

APMCR

Liga **HABITAT**

Mecanisms for QS implementation

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- Use existing networks (consortium Contr., Prod., Edu.)
- Framework for vocational training (Platform, Labour off., Assoc. VET-c, Ev.c-c, T.sup etc.):
 - To ensure scheme flexibility,
 - To support long term previsions and re-qualification paths
- Register for qualified persons (Qualif. Auth.—PICAS—Labour)
- Tools for skills evaluation (informal & non-formal env.)
- Partnerships for education (training system constructions)

Recognition

- Construction market
- National Qualification System
- Public funding for EPB upgrade

Funding

- Dimens. & share resources
- Public / private fund → Training
- European Social Fund



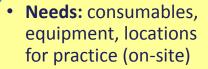


Partnerships for education

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Voluntary agreement for qualification (based on 'natural drivers')

- → large scale + long lasting
- Professional / technology schools
- Qualification / Training providers



• Offer: training content, locations for theory, trainers



Common goal(s)

 Shared ressources





Local partenerships

between **Education System** and Construction Industry

Local auth.

- Workforce in construction sector (employees)
- Clients / investors (final beneficiary)



(employers / construction companies)

- **Needs:** qualified workers (certified)
- **Offer:** on-site locations, equipment, **OSH-safety**

- Needs: high quality of their product installation, image
- Offer: consumables, technical specs, trainers (demo)

Technology & Systems Producers / Suppliers (building envelope)



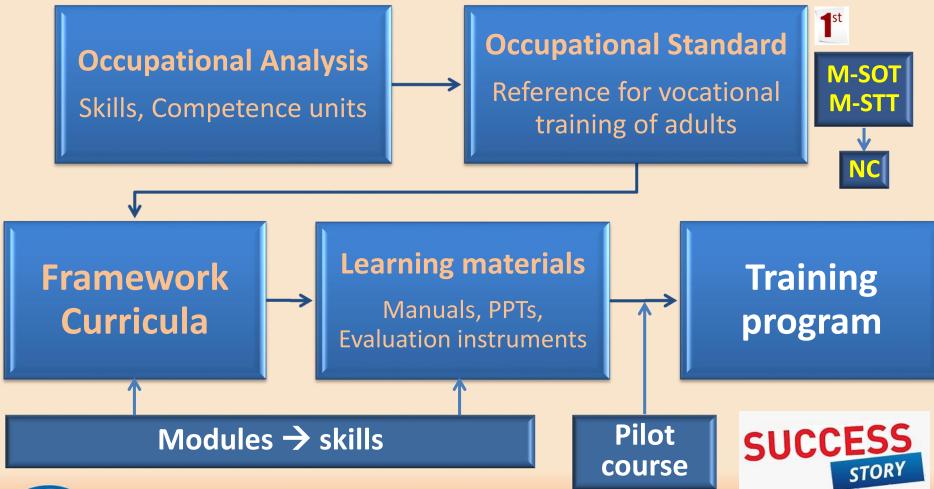
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Results (1)

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Qualification Scheme









Results (2)



- ✓ National Qualification Platform & National Consultation Committee: 14 consultation events, 2 roundtables, 1 Study Tour and 7 meetings for promotion of partnerships,
- ✓ Qualification schemes: 1 new occupation & 1 revised occupation,
- √ 16 reports/guides/manuals published, 18 event reports, various communication materials (guidelines, brochures, flyer, press/media),
- ✓ Website published and updated, BUILD UP Skills Group on LinkedIn, BuildUpSkillsRO on Twitter,
- ✓ 11 partnership agreements between education and construction industry signed in: Bucharest-Ilfov (5), Timisoara (2), Brasov (2), Cluj-Napoca (1), Galati (1),
- ✓ Introduction of the construction sector as priority sector within last calls of ESF 2007-2013 (POSDRU) and in new ESF 2014-2020 (POCU).





Lessons learned (1)



- ✓ The national qualification system is under major changes in the evolution towards European framework and requirements
- ✓ Similarities with other systems have been identified (e.g. Spain) and some models could be successfully applied in Romania (e.g. special fund for training / qualification managed by tripartite body) if adequately promoted at political level
- ✓ This could be one of the best drivers for boosting the training / qualification market in the construction sector





Lessons learned (2)

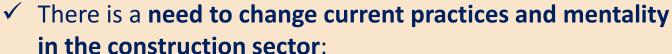


- ✓ Barriers and bottlenecks (qualification in the construction sector), which could hamper the application of the developed qualification scheme:
 - ✓ lack of sufficient financing sources open to construction companies to qualify their workers,
 - ✓ **poor recognition** of high quality works in constructions, no mandatory requirements for certified qualified workers etc.
- Drivers are needed: updated legal framework and procedures for the tendering process of public funding of high energy performance buildings (new and renovation) \rightarrow to set up quality levels and requirements for certified qualification + + control enforcement ('sticks'), dedicated financing sources and instruments for training and qualification on the construction sector ('carrots'), authorities' involvement in stimulating partnerships between EDU and IND





Lessons learned (3)



- ✓ managers of construction companies to understand the importance of qualification level in relation to obtained quality, efficiency and productivity,
- ✓ employees to generate a self-control attitude (which could be obtained by qualification).
- ✓ The effective implementation of nearly zero energy buildings requirements in the near future represents a great challenge which cannot be adequately undertook without mastering the application of new concepts and technologies, which implies higher qualification level for workers.













Contact

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