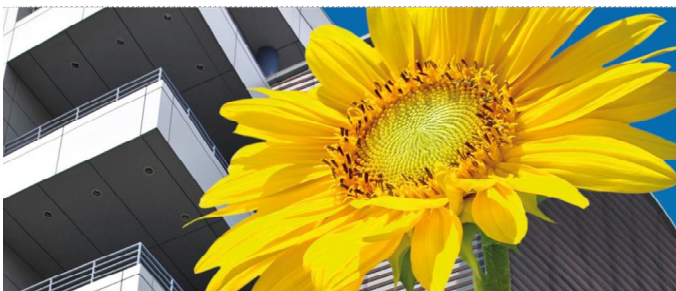


INSTITUTION THAT SUPPORT NATIONAL ROADMAP

- Republic of Croatia, Ministry of Construction and Physical Planning
- Republic of Croatia, Ministry of Economy
- Republic of Croatia, Ministry of Entrepreneurship and Crafts
- Republic of Croatia, Ministry of Environment and Nature Protection
- Republic of Croatia, Ministry of Science, Education and Sports
- Ministry of Labour and Pension System
- Agency for Vocational Education and Adult Learning
- Environmental Protection and Energy Efficiency Fund
- City of Zagreb
- City of Koprivnica
- Croatian Chamber of Economy - Sector for Construction and Communal Economy
- Croatian Employment Institute
- Croatian Chamber of Civil Engineer
- Croatia Green Building Council
- Croatian Association of Facade Thermal Insulation Systems
- Building Managers association
- Croatian Society for Infrared Thermography
- Croatian Association of Court Expert Witnesses
- Vocational School Vice Vlatković Zadar
- Construction and Technical School Rijeka
- Croatian Employers` Association
- Croatian Association of Roofers



CROSKILLS, BUILD UP Skills Croatia

EC funded project, CIP IEE
IEE/12/BWI/457/SI2.623227

Starting date: 7th June 2012

Project duration: 18 months

Coordinator:

University of Zagreb, Faculty of Civil Engineering

Project coordinator:

Prof. Ivana Banjad Pečur PhD

Address:

Fra Andrije Kačića Miošića 26
HR – 10000 Zagreb

Email:

banjadi@grad.hr

Telefon:

+385-1-4639-162

Web:

www.buildupskills.eu/en

Partners:



University of Zagreb, Faculty of Civil Engineering
Fra Andrije Kačića Miošića 26, HR-10000 Zagreb



Ministry of Construction and Physical Planning
Ulica Republike Austrije 20, HR-10000 Zagreb



Regional Environmental Center
Ferde Livadića 35, HR-10000 Zagreb



Croatian Chamber of Trades and Crafts
Ilica 49/II, p.p.166, HR-10000 Zagreb



School of Building and Crafts
Športska 1, HR-40000 Čakovec



University of Zagreb, Faculty of Architecture
Fra Andrije Kačića Miošića 26, HR-10000 Zagreb



Knauf Insulation Ltd.
Varaždinska 140, HR - 42220 Novi Marof



United Nations Development Programme Croatia
Radnička 41/8, HR-10000 Zagreb



BUILD UP Skills Croatia CROSKILLS



National roadmap
for a lifelong learning of construction
workers in the field of energy
efficiency

www.buildupskills.eu/hr

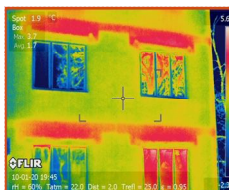


Analysing the construction sector

METHODOLOGY :

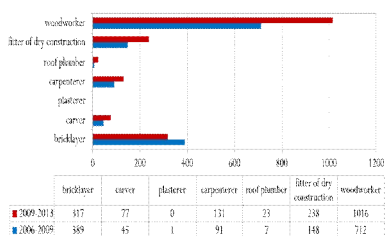
The analyses of the VET system and the knowledge of construction workers have been performed by:

- official databases, national studies and strategic documents and action plans and analyses
- the questionnaires answered by construction workers,
- the questionnaires answered by the persons employed at the educational institutions offering VET curricula (teachers, instructors, principals)



RESULT OF ANALYSIS:

- Under Energy Efficiency Directive 2012/27/EU (EED), Croatia must renovate 3% of buildings in the public sector a year
- 80% of the existing residential buildings fall into the worst energy classes
- The skills necessary for quality execution of low-energy buildings are very rare among construction workers
- As to the four- and three-year courses of VET education amount 8% of all secondary school students enrolled per a year
- Vocational high schools for construction workers and schools for adult education are not especially oriented on energy efficiency and renewable sources as a part of their curricula
- 7 % of craftsmen deal exclusively with the implementation of EE technologies according to the questionnaires



- Currently there are no lifelong educational programmes or schemes for workers concerning the work on improving energy specifications of buildings

84% respondents stated that they wanted additional training to a certain extent and become specialized in the field of energy efficiency technologies in building construction



www.buildupskills.eu/hr

National measures for lifelong education of construction workers

GENERAL MEASURES

- GM-1 Education and lifelong education of the existing qualified (Q) workers in the fields of EE and RES
- GM-2 Workout of the CROSKILLS marketing plan for the purpose of popularization of the construction jobs
- GM-3 Training and lifelong education of the existing un-qualified (UQ) workers in the fields of EE and RES
- GM-4 Commencing an info campaign at the national level with the purpose of promoting EE refurbishment of buildings and the offer of licensed workers and certified companies in the realm of EE
- GM-5 Retraining and lifelong education as to EE and RES for both unemployed and employed construction workers
- GM-6 Workout of the CROSKILLS marketing plan for the purpose of a lifelong education for workers
- GM-7 Establishing the administrative structure
- GM-8 Informing the employers with the possibility of use of the Croatian Act on Subsidies

TECHNICAL MEASURES

- TM-1 Making the plan of a lifelong education for workers that are to construct nearly zero-energy buildings and refurbish the existing ones in terms of EE
- TM-2 Training of experts that will train and educate construction workers (Training of trainers)
- TM-3 Establishing the Registry of Educated Workers that is to be accessible to a wider public; updating the Registry, taking evidence on lifelong education
- TM-4 Including the construction products manufacturers into the process of educating construction workers
- TM-5 Finding financing sources and a systematization of the financial structure for educating labour force for the purpose of attaining the national EE objectives
- TM-6 Upgrading the process of practical work/practical segments of educational courses performed at the manufacturers' plants, building site or school workshops
- TM-7 A continuous monitoring of needs for qualified labour force, special skills and vocations needed for fulfilling the EE plan

National measures for lifelong education of construction workers

LEGISLATIVE MEASURES

- LM-1 Public tenders system – green public tenders, the obligation of employing certified workers (after the sufficient number of educated workers have entered the market) and the mechanism for protection of local performers
- LM-2 Certifying/licensing construction workers after they have completed education courses (licensing an individual)
- LM-3 Monitoring the bodies responsible for training (depriving them of authorization)
- LM-4 Monitoring the licensed companies and trades (depriving them of the license/charging fines)
- LM-5 Licensing of the companies and trades in the way that includes education obligation and the expiry of the certificate; Evidence/registry of companies and trades licensed to perform EE and RES works

OTHER MEASURES

(they are not directly related to lifelong education of workers)

- OM-1 Revision and implementation of secondary school curricula for the vocations related to construction and refurbishment in terms of EE and RES
- OM-3 Legislation on EE performance quality control in the course of performance of works and prior to issuing operating licenses
- OM-5 Encouraging the creation of curricula for interdisciplinary vocations
- OM-4 Encouraging the clustering of expert business entities taking part in the construction processes and establishing professional associations (by the expert community)
- OM-2 Taking part in the process (workgroup) for changing the legislative in the realm of dwelling and dwellers' proprietorship relations
- OM-6 Promoting the urban refurbishment (so-called placemaking, creating a pleasant place for living)
- OM-7 State-level subsidies for EE refurbishment of buildings



www.buildupskills.eu/hr