

<b>BUILD UP Skills Croatia Factsheet</b>	
<b>BUILD UP skills activities of the country</b>	
<b>BUS Pillar I project title (contract number)</b>	Build Up Skills Croatia - CROSKILLS (IEE/12/BWI/457/SI2.623227)
<b>BUS Pillar II project title (contract number)</b>	Build Up Skills CROSKILLS II - Strengthening energy efficiency SKILLS and certification schemes for building workers (IEE/13/BWI/722/SI2.680179)
<b>Horizon 2020 Construction skills project title (contract number)</b>	PROF/ TRAC (and since more recently Fit-to-Nzeb, Net-UBIEP)
<b>BUILD UP Skills CROSKILLS II</b>	
<b>Project coordinator's full name</b>	University of Zagreb, Faculty of Civil Engineering
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<b>Project Partners</b>	Regional Environmental Center for Central and Eastern Europe, Country Office Croatia School of Buildings and Crafts of Čakovec Croatian Association of Thermal facade Producers Croatian Chamber of Civil Engineering Croatian Employment Service
<b>Project website</b>	<a href="http://www.croskills.hr/">http://www.croskills.hr/</a>
<b>Keywords</b>	CROSKILLS, energy efficiency, building workers, certification scheme
<b>Duration</b>	Start date: 01/09/2014 End date: 31/08/2017
<b>Budget</b>	EUR 602.501 (EU contribution 75%)
<b>Context</b>	
<b>Summary description</b>	This project intends to focus on the establishment of a large-scale qualification and training scheme for Croatian blue-collar building workers, based on the recommendations and priority measures defined by the National Roadmap. The action addresses the continuing training of building workers (craftsmen and blue-collar workers) that are already on the job market, covering all works needed on the building envelope. Four modules of education will be developed and tested for each of the six priority professions, thus in total 24 training modules. A functioning certification scheme will be also developed. An initial set of at least 10 training centres will be accredited countrywide, and preparations will be made for ensuring institutional and financial sustainability of the system after and outside of the project frame.

Objectives	<ul style="list-style-type: none"> <li>• Development of comprehensive training materials and training curricula for 6 priority building professions</li> <li>• Establishment of 6 training schemes, one for each priority profession, including accreditation of the initial set of training providers</li> <li>• Establishment of a national certification scheme for building workers, starting with 6 priority professions, but with a view of expanding and linking to other building sector-related professions, such as RES workers</li> <li>• Establishing mutual recognition of the future Croatian certification and training schemes with other European countries</li> <li>• Development of a sustainability plan for the continuation of the workers' training &amp; certification schemes outside the project frame</li> </ul>
Target skills/ professions	Targets all 6 priority professions identified by the National Roadmap: bricklayers, plasterers, roofers, carpenters, house-painters and prefabricated construction fitters.
<b>Project's results and impact (max 500 characters without spaces per bullet point)</b>	
Expected results	<ul style="list-style-type: none"> <li>• At least 1200 Croatian building workers trained and certified in energy efficiency</li> <li>• At least 10 accredited training centres and 200 trainers country-wide</li> <li>• Verified comprehensive training programmes in the field of energy efficiency for 6 priority construction professions</li> <li>• Functional national certification and accreditation schemes for workers and training providers in the field of energy efficiency for 6 priority construction professions, run by the Croatian Chamber of Civil Engineers</li> <li>• Recognition of the certified energy efficiency skills of Croatian building workers in other European countries</li> </ul>
Lessons learnt	<ul style="list-style-type: none"> <li>• Regulation on the training and certification scheme for construction workers who install building components that have an influence on the energy efficiency of buildings was developed in order to enable sustainability of the action</li> <li>• Construction workers represent a basis for the quality of energy efficient buildings but also professions like architects, engineers, supervising engineers of construction sites</li> <li>• They all need education in order to build buildings in the frame of energy efficiency</li> </ul>
Barriers	<ul style="list-style-type: none"> <li>• Lack of construction workers on labour market</li> <li>• Lack of students in construction schools for 6 priority professions</li> <li>• The number of trained workers will be lower than expected</li> <li>• Financial sustainability</li> </ul>
Key needs	<ul style="list-style-type: none"> <li>• Use of certified workers as a mandatory condition in public call for energy efficiency of buildings, in particular for calls co-funded by the European Structural Fund</li> </ul>

Recommendations	<ul style="list-style-type: none"> <li>• Allow the use of certificated workers as a mandatory condition in public calls (for energy efficiency of buildings), specially for calls cofounded by the European Structural Fund</li> <li>• Further marketing campaign has to be done (after the end of the project) for promoting builders' profession and life-long education &amp; training of workers</li> <li>• LLL education of professions like architects, engineers, supervising engineers of construction sites on practical part of construction in the frame of energy efficiency is needed</li> </ul>		
Replicability	Certification and education system, developed under CROSKILLS project can be further used after the end of the project in other countries like Serbia, Montenegro, Bosnia and Herzegovina, Kosovo, Albania		
<b>Project indicators</b>			
<b>Common Performance Indicators</b>	<b>Ex ante target</b>	<b>Final result<sup>1</sup></b>	<b>Target 2020</b>
Number of training courses triggered by the action	120	53	1040
Number of people that will be trained	1200	330	20800
Number of hours taught in the frame of the courses triggered	2400	1325	41600
Estimated specific cost to qualify each trainee (EUR)	200 Euro/ trainee; (with minimum 10 participants per training)	217 Euro/ trainee (average cost for each trainee workers; with minimum 10 participants per training)	300 Euro/ trainee
Renewable Energy production triggered (toe/year)	7,936.67 toe/year	2.866,15	68,787.60 toe by the end of 2020
Primary energy savings compared to projections (toe/year)	50,000 toe/year	14.045,57	124707,66 toe by the end of 2020
Reduction of greenhouse gas emissions (tCO <sub>2e</sub> /year)	166,666.67 tCO <sub>2e</sub> /year	38.521,20	342021.54 tCO <sub>2</sub> by the end of 2020
<b>PROF/TRAC</b>			
Project Coordinator <sup>2</sup>	Huygen Installatie Adviseurs (NL)		
Participants <sup>3</sup>	<ul style="list-style-type: none"> <li>. Federatie van Verenigingen voor Verwarming en Luchtbehandeling in Europa (NL)</li> <li>. CAE Services GEIE (BE)</li> </ul>		

<sup>1</sup> Input from Ivana Banjad Pečur, November 2017

<sup>2</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)

<sup>3</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)

	<ul style="list-style-type: none"> <li>. Conseil des architectes d'Europe (BE)</li> <li>. Comité Européen de coordination de l'habitat social AISBL (BE)</li> <li>. Stichting Instituut voor Studie en Stimulering van Onderzoek op het Gebied van Gebouwinstallaties (NL)</li> <li>. Instituto Valenciano de la Edificación (ES)</li> <li>. České vysoké učení technické v Praze (CZ)</li> <li>. Aalborg Universitet (DK)</li> <li>. Danvak APS (DK)</li> <li>. Hrvatska komora inženjera strojarstva (HR)</li> <li>. Fundatecyr (ES)</li> <li>. Nederlandse Technische Vereniging voor Installaties in Gebouwen TVVL (NL)</li> <li>. Ceska komora autorizovanych inzeyru a techniku (CZ)</li> <li>. Zbornica za arhitekturo in prostor Slovenije (SL)</li> <li>. Consiglio Nazionale degli Architetti, Pianificatori, Paesaggisti e Conservatori (IT)</li> </ul>
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Project's website	<a href="http://proftrac.eu/open-training-platform-for-nzeb-professionals.html">http://proftrac.eu/open-training-platform-for-nzeb-professionals.html</a>
Keywords	Skills, training, white-collar, energy-efficiency, nZEB
Duration	Start date: 2015/03/01 End date: 2018/02/28
Budget <sup>4</sup>	EUR 1,499,871.25 (EU contribution 100%)
Summary description	<p>PROF-TRAC has developed a skills mapping methodology (creating inventories of professionals, existing qualifications, available education programmes, accreditation and certification structures and so on) through which estimates of the number of professionals required can be made. One of the results is a implementation of the results in a mobile application that facilitates actors in the construction sector find a suitable training. PROF-TRAC has also resulted in an online database (<a href="http://proftrac.eu/training-materials.html">http://proftrac.eu/training-materials.html</a>) that lists and categorises training projects (e.g. according to target / involved groups, building phase).</p> <p>PROF-TRAC is building upon previous IEE projects (BuildUpSkills, IDES-EDU etc.) and is initiated by the largest European associations for the sector (REHVA, ACE, CECODHAS).</p>
<b>Context</b>	
Objectives <sup>5</sup>	<ol style="list-style-type: none"> <li>1. Mapping of the required skills and current skills gap of professionals in NZEB</li> <li>2. Development of an open training platform including methods for a systematic and sustainable access to knowledge</li> </ol>

<sup>4</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)

<sup>5</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)

	<p>3. Development and testing of a Train the Trainers programme for the developed curriculum and/or qualification scheme</p> <p>4. Development of a repository of the training material for use in education and post-initial education</p>
Target skills/ professions <sup>6</sup>	<ul style="list-style-type: none"> <li>• Architects</li> <li>• Engineers</li> <li>• Building managers</li> <li>• Other building professionals</li> </ul>

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<sup>6</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)