



Project Fact Sheet

Best Energy Efficient Construction and Training Practices (BUILD UP Skills BEEP)

Main information

Key Action:	x
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Project's Partners	Tampere University of Technology (TUT), Finland Work Efficiency Institute (TTS), Finland
Project's website:	www.motiva.fi/buildupskillsfinland (English) www.motiva.fi/buildupskills (Finnish)
Benefits:	Improved skills of construction workers; improved competence of teachers/trainers. Coherent, updated, easy to use training material for construction sector trainers and teachers. Quality of buildings improves.
Keywords:	Education, training scheme, on-site, construction, energy efficiency, best practices, condensation, mould, life-long learning, pilot training, adult training
Duration:	1 October 2013 – 31 March 2016
Budget:	551 017 €
Contract number:	IEE/12/BWI/350/SI2.659663 – BUILD UP Skills BEEP

Summary

The project builds on the Status Quo report of the project submitted for Finland under BUS Pillar I and aims to implement the Roadmap thus produced. Status Quo 2012 concluded that nearly all construction sector employees could benefit from some type of further training and that energy issues should be included as a cross-cutting theme in all curricula of both basic and further education. The need for short-duration precision training was especially evident. To address the identified barriers, gaps and needs, the Roadmap suggests three broad themes and measures:

- Development of learning and knowledge
- Dissemination of know how & verification, and
- Supporting the development of knowledge.

The overall motivation of the project is to increase the number of skilled workers in the construction sector, thus facilitating the achievement of ambitious energy efficiency targets on Finland's construction sites. The approach is very practice-oriented and focuses on training and learning on construction sites and in environments allowing practical exercises.

The specific objectives of the action are:

- Identify and document today's best practices of energy efficient construction
- Production of training material for construction sector trainers/teachers, development of teacher training scheme, and arranging pilot trainings to test the approach to improve the competence of trainers/teachers and thus improve teaching of construction workers
- Introduction of on-site training to facilitate practical training of workers on construction sites: production of training materials and new methods, development and piloting of on-site training scheme for training of change agents
- Ensure the interaction between the operating environment and relevant strategic initiatives.

The project combines practical and theoretical expertise in construction, energy issues and education. Wide engagement of stakeholders will be ensured.

Project's results

Result 1	Coherent publicly available (on-line) training material in different forms (PPT-slides, instruction cards, booklets and videos) and in several languages based on best energy efficient practices in construction will generate to improved skills in the sector. <ul style="list-style-type: none"> • Planned: 2 000 downloads of material during the action and 12 000 downloads by 2020 • Final result: over 9000 downloads of materials during the action
Result 2	Recommendations on practical energy efficient implementation on construction sites regarding solutions related to heat and moisture physics and building technology will be presented through innovative and easily accessible materials (videos, instruction cards, booklets, informative posters) based on practical examples. <ul style="list-style-type: none"> • Planned: 1000 booklets distributed to construction sites during the action • Planned: videos in use in workers break rooms • Final: 400 booklets distributed
Result 3	Production of teacher training scheme and pilot trainings will result in improved competence and motivation of teachers/trainers to take up energy efficient solutions into training programmes. As a result of training carried out by the trained teachers, the competence of construction workforce improves. <ul style="list-style-type: none"> • Planned: 40 teachers will be trained during the action, multiplier effect of better training in the sector leads to improved skills • Final result: Close to 50 teachers trained during the action.

Result 4	<p>On-site training scheme and pilot trainings of change agents who will be multipliers of the concept on construction sites</p> <ul style="list-style-type: none"> Planned: 70 workers (change agents) will be trained during the action and 1 000 by 2020 Final result: 58 workers trained during the action
Result 5	<p>Collaboration of stakeholders and coordination of roadmap implementation activities by different stakeholders will strengthen the realisation of the actions.</p> <ul style="list-style-type: none"> Planned: 220 stakeholders in the platform during the action and 450 by 2020 Final result: 240 stakeholders in the platform during the action

Lessons learnt

Lesson 1	<p>Involvement of key stakeholders to the project objectives, activities and outputs is crucial for success. The Strategic Advisory Group of the project represents the key authorities, both public and private, in the construction and training sector. The Group is active in giving input to project actions, assisting in stakeholder involvement and in dissemination activities. Endorsement of the SAG members improves the implementation of the action.</p>
Lesson 2	<p>Investing in material preparation thoroughly. The facts and details need to be checked to be correct. Also elaboration of the material in an adaptable format for two different target groups is laborious. Visual illustrations/photos/graphs complement the text and often are more important as they are easily comprehensible (with one look). Wide variety of material in different formats ensures wider adoption and acceptance for use.</p>
Lesson 3	<p>Using new or different from the customary methods to raise interest in target groups is crucial. The project recruited a person to work as on-site training ambassador whose tasks include contacting the construction companies and training institutions in order to them up-take the training concept and materials. The method has already proved to be successful. The on-site training ambassador is welcomed to present the training concept and construction companies have committed to send workers to pilot trainings.</p>

Last updated

31.3.2016

Project logo:

