

THE OUTCOMES OF JS TOOLBOX WORKSHOPS

held by

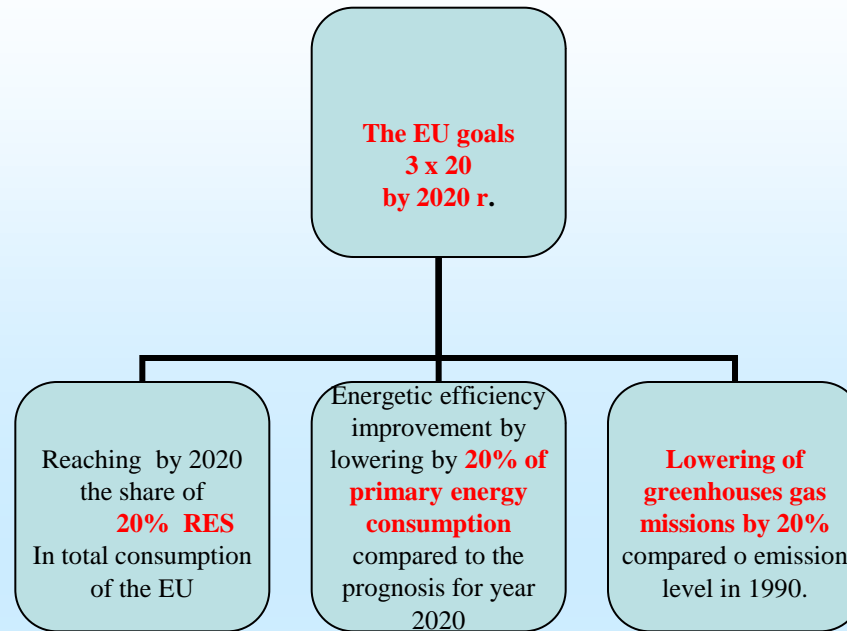
Chamber of Industry and Commerce

„ STAROPOLSKA ”

(construction sector)

30th of May 2012





About 20,000 employees have been working in construction sector.

Every profession (in construction sector) acc. to PQF includes:

- * knowledge,
- * skills,
- * competences

Every profession may consist of many partial qualifications, each can be approved by a diploma.

One profession may include few qualifications.

The EU buildings use **42 %** of energy and produce **35%** of greenhouse gases.
It is possible to save up to 30 % of energy in the buildings.
Since year 2018, acc. to the EU requirements, passive buildings will be made only.
Average energy consumption of a building objects per square meter per year is:

old bldg:

with mech.vent.:

with mech. v. & heat recovery:

200 – 300 kWh/m² /a

50 – 70 kWh/m² /a

15 - 30 kWh/m² /a

Passive building - standard of constr. objects of very good insulating parameters, external partitions, with many applied solutions to minimise energy consumption during their use. Practice shows that the demand for energy in those objects is eight times less than in traditional building objects built acc. to current obligatory standards.

Existing construction professions requiring upgrading of competences on future labour market

(acc. to the opinion of VET , PES institutions, entrepreneurs and workshop conclusions), :

- | | |
|---------------------------------------|-----------------------------------------|
| 1. Bricklayer | 8. Construction machines operator |
| 2. Plasterer (plaster units operator) | 9. Plate layer |
| 3. Tiler | 10. Painter |
| 4. Electrician, | 11. Water-sewage inst. fitter |
| 5. Plumber, | 12. Scaffolding assembler |
| 6. Carpenter | 13. Thermal insulation fitter. |
| 7. Fixer | 14. Pre-insulating heat. network fitter |
| | 15. door-windows frames fitter |

Those professions will require to upgrade the competences common for all other professions

New professions in construction sector

(acc. to the opinion of VET , PES institutions, entrepreneurs and workshop conclusions), :

Electrician specialist for performance, servicing and maintenance of sola panels in constr. sector,
Plumber of solar water heaters in constr. sector,

Construction specialist in making the energy-saving and passive buildings

Specialist in making and maintenance of wind power stations in constr. sector

Specialist in making and maintenance of heat pumps in constr. sector,

Specialist in making and maintenance of bio-fuel power supply systems in constr. sector,

Specialist in making and maintenance of power supply water systems in constr. sector

The actions to be taken in the region in vocational education area:
(acc. to the workshop conclusions, PES institutions and entrepreneurs opinions):

- * set-up the base of existing vocational schools for regional construction sector;
- * promote and motivate of the entrepreneurs who upgrade qualifications of trainees and apprentices;
- * increase the number of apprenticeships and training courses during education in vocational schools;
- * encourage the employers to cooperate with schools for better preparation of future employees to construction market demands;
- * acquaint the students with the employers demands in skills, abilities and new technologies.
- * assure participation of construction sector entrepreneurs in education costs;
- * elaborate a strategy of cooperation of PES, entrepreneurs with vocational schools;
- * business support institutions should plan and organize the courses and trainings in the areas of construction sector demands;
- * establish an institutional leading company (Business Supporting Institution), which will perform the labour market testing, disseminate information about construction market and the like;
- * run systematic tests and analyses of construction market vocational needs;
- * participation of construction sector enterprises in vocational training, apprenticeship;
- * elaborate the strategy of cooperation of the entrepreneurs with vocational schools,
- * increase the number of construction practical courses during education in vocational schools
- * the system of vocational education should include the flexibility of construction education, to assure a graduate to adapt smoothly to the changes in labour market

***The actions necessary to be taken at regional level
by PES institutions for VET improvement in construction sector***

part 1:

The task:

Inst.:

Description:

Running the systematic and repeatable tests of regional labour market re. vocational education with particular attention paid to prognosis

W U P

That will be the duty of Educ.-Vocational Information Centre from 2016

Establishing of a team programming the system vocational education

Marshall
Office

Establishing of Profess. Educ. Board WUP, KO, ŚCDN, Woj. Rada Zatrudn., IOB, employers.

Elaboration of regional plan of modernisation of vocational education

Marshall
Office

Cataloguing of resources, establishing of vocational education tasks, education standards

Establishing of county centres for vocational education advices

The county
offices,
Kielce City
Council

Supporting of vocational schools in and vocational and education area

***The actions necessary to be taken at regional level
by PES institutions for VET improvement in construction sector***

part 2

The task:	Inst.:	Description:
Establishing of practical education centre in Kielce	Kielce City Council	Workshops equipment. The analysis of practical education teaching personnel.
Closer cooperation with employers	Vocational schools management	Assurance of high quality of vocational and practical education
Obligatory vocational upgrading of vocational subjects teachers, verification of implementing of gained knowledge	Vocational schools management	The duty of periodical upgrading of vocational skills, courses and trainings in the companies
Modernisation of teaching curriculums subjects	Vocational education teachers	Coordinator: SCDN or university

THANK YOU FOR YOUR ATTENTION

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