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# THE OCCUPATIONAL SAFETY EXPERT AS BASIS FOR IMPLEMENTATION AND MAINTENANCE OSH SYSTEMS

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# WHAT IS OCCUPATIONAL SAFETY EXPERT?

The occupational safety expert is employed by the employer designee for performing professional tasks related to safety

BUT . . .



Obligations and occupational safety and health specified in the Law on OHS, the employer may entrust to authorized body or individuals, if it is unable or lacks adequate professional staff and technical equipment to implement the OHS system.

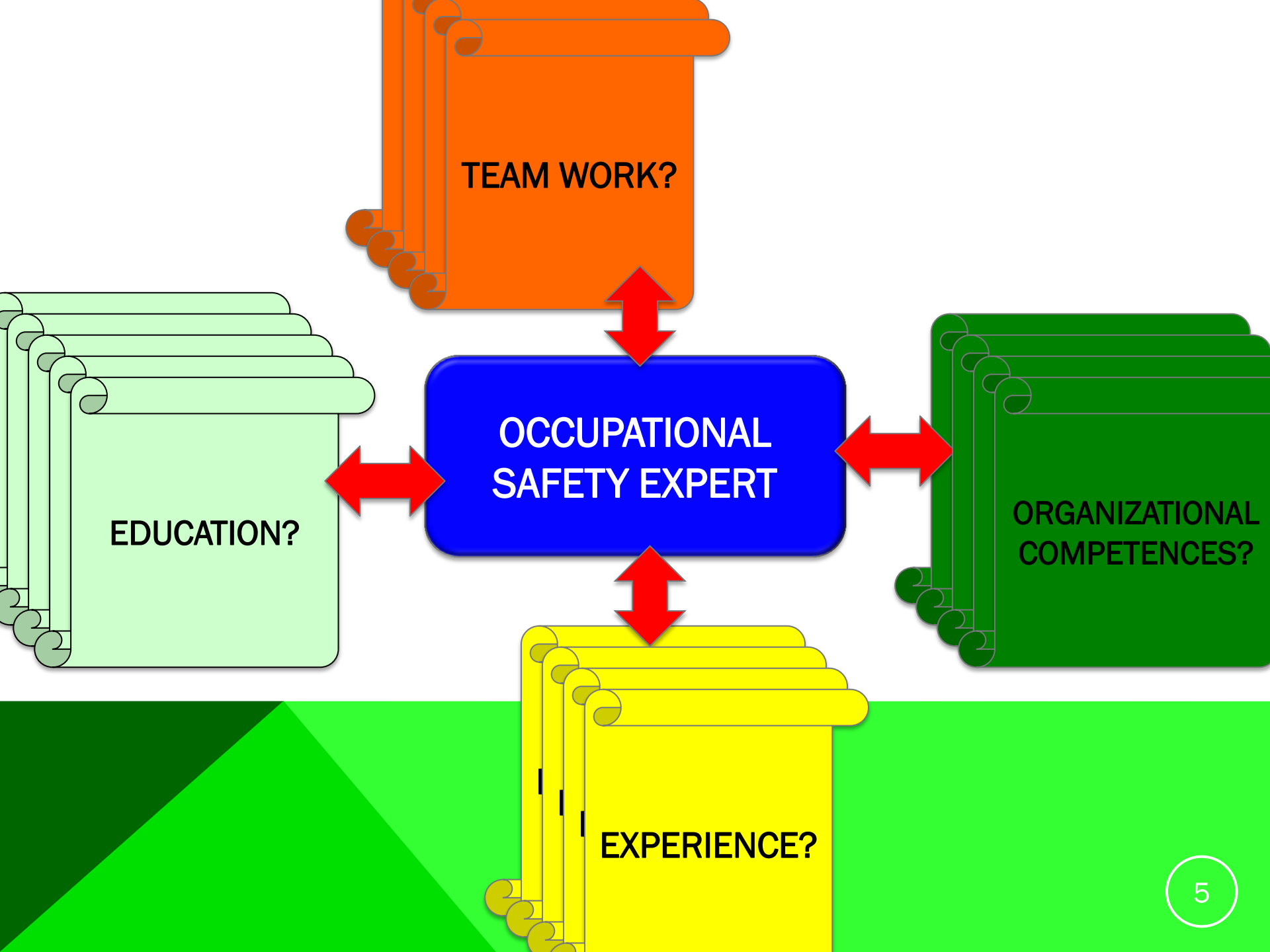


# **OBLIGATIONS OF THE OCCUPATIONAL SAFETY EXPERT**

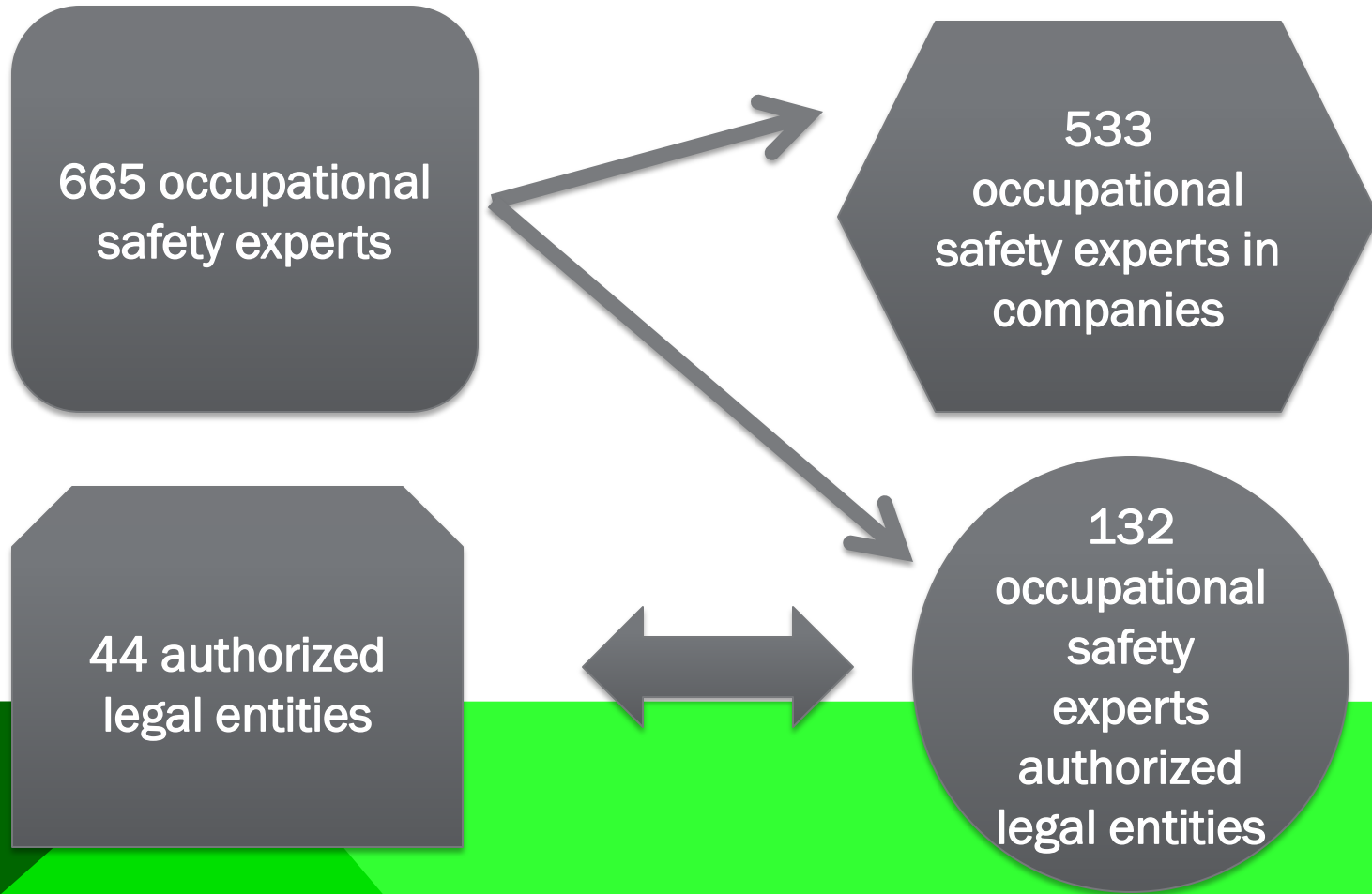
- Advising the employer in planning, selection, purchase and maintenance of work instruments;
- Advising the employer to equip the workplace environment;
- Preparation of expert basis for the statement for safety;
- Performing regular checkups of physical, chemical and biological risks in the work environment;
- Performing regular checkups and testing of work equipment;

# **OBLIGATIONS OF THE OCCUPATIONAL SAFETY EXPERT**

- Performing internal supervision over the implementation of measures for the safe execution of the work;
- Development of guidelines for the safe execution of the work;
- Monitoring and analysis of injuries related to work, occupational diseases, identifying the reasons for them and preparing reports for the employer;
- Preparation of program implementation and training of employees for safe work;
- Continuous professional development through participation in training.



# CURRENT SITUATION IN REPUBLIC OF MACEDONIA



According to the State Statistical Office, in the first quarter of 2016 the labor force in the Republic of Macedonia numbered 945 821 persons, of which 714 435 employed, and 231 386 people were unemployed.

The condition for the participation of active business entities by number of employees

Entities	2013	2014	2015
Number of active business entities	71.290	70.659	70.139
Businesses with 1-9 employees	85 %	85.2 %	80.2 %
Businesses without employees	6.2 %	5.6 %	10.4 %
Enterprises with 10-19 employees	4.2 %	4.4 %	4.3 %
Enterprises with 20-49	2.5 %	2.6 %	2.8 %
Enterprises with 50-249 employees	1.8 %	1.8 %	1.9 %
Enterprises with over 250 employees	0.3 %	0.3 %	0.3 %

Source: State Statistical Office of the Republic of Macedonia

# Active population by educational attainment

Educational attainment	Labour force		Employed		Unemployed	
	2015/I	2016/I	2015/I	2016/I	2015/I	2016/I
	Total					
Total	959 388	945 821	697 248	714 435	262 140	231 386
Without education	(3399)	(4972)	(1721)	(3064)	(1678)	(1908)
Incomplete primary education	28 497	18 752	18 500	14 894	9 997	(3859)
Primary education	194 230	186 569	133 504	128 706	60 726	57 862
3 years of secondary education	79 771	69 694	55 393	53 901	24 378	15 793
4 years of secondary education	434 285	421 961	314 973	315 229	119 312	106 732
Professional education	23 025	18 590	18 445	16 314	(4580)	(2276)
High (faculty) education	196 182	225 283	154 713	182 327	41 469	42 956

Source: State Statistical Office of the Republic of Macedonia



# SITUATIONAL ANALYSIS OF EDUCATION IN OHS

University: „Ss Cyril and Methodius,, in Skopje

Faculty: Mechanical Engineering, Skopje; Address: Karpos II post code 464 1000 Skopje

Cycle of studies	The name of the program	The year of the first accreditation	Duration of studies (in semesters)	Number of loans	Acquired title (exact name)	Number of students enrolled (total number of the first accreditation)	Number of graduated students (Total number of the first accreditation)
I Cycle Studies	OSH	1989	8		Engineer occupational	349	132
II Cycle Studies	Management Systems for safety and health at work	2012	4	120	Master of technical Sciences in the field of safety and health at work	43	10
III Cycle Studies	Doctoral School	2012	6		Doctor of Technical Sciences	2	

# SITUATIONAL ANALYSIS OF EDUCATION IN OHS

University: International Slavic University “Gavrilo Romanovich Derzavin“

Faculty: Faculty of safety engineering; Address St . „Marshal Tito“ 77 2220, Sveti Nikole

Cycle of studies	The name of the program	The year of the first accreditation	Duration of studies (in semesters)	Number of loans	Acquired title (exact name)	Number of students enrolled (total number of the first accreditation)	Number of graduated students (Total number of the first accreditation)
I Cycle Studies	Safety at work	2012/2013	6	180	Graduated engineer for safety at work	240	54
II Cycle Studies	Safety at work	2012/2013	4	120	Master of Safety at work	114	25
III Cycle Studies							

# SITUATIONAL ANALYSIS OF EDUCATION IN OHS

University: University „Goce Delcev” Stip

Faculty: Mechanical Faculty Stip; Address: St. „Krste Misirkov“ No. 10-A, Post. code 201, Stip

Cycle of studies	The name of the program	The year of the first accreditation	Duration of studies (in semesters)	Number of loans	Acquired title (exact name)	Number of students enrolled (total number of the first accreditation)	Number of graduated students (Total number of the first accreditation)
I Cycle Studies							
II Cycle Studies	Engineering work environment	2011	2	60	MA in technical sciences	21	2
III Cycle Studies							

# MEDICINE OF LABOR

Besides producing quality engineering personnel, because of the complexity of the area, of particular concern is the proliferation of interested specialists in the field of occupational medicine. In recent years the Department of Medicine of Labor at the Medical Faculty enrolled 18 student that started specialization in the field of Medicine of Labor. Republic of Macedonia has a total number of 70 specialists in medicine of labor who are actively involved in OHS systems.



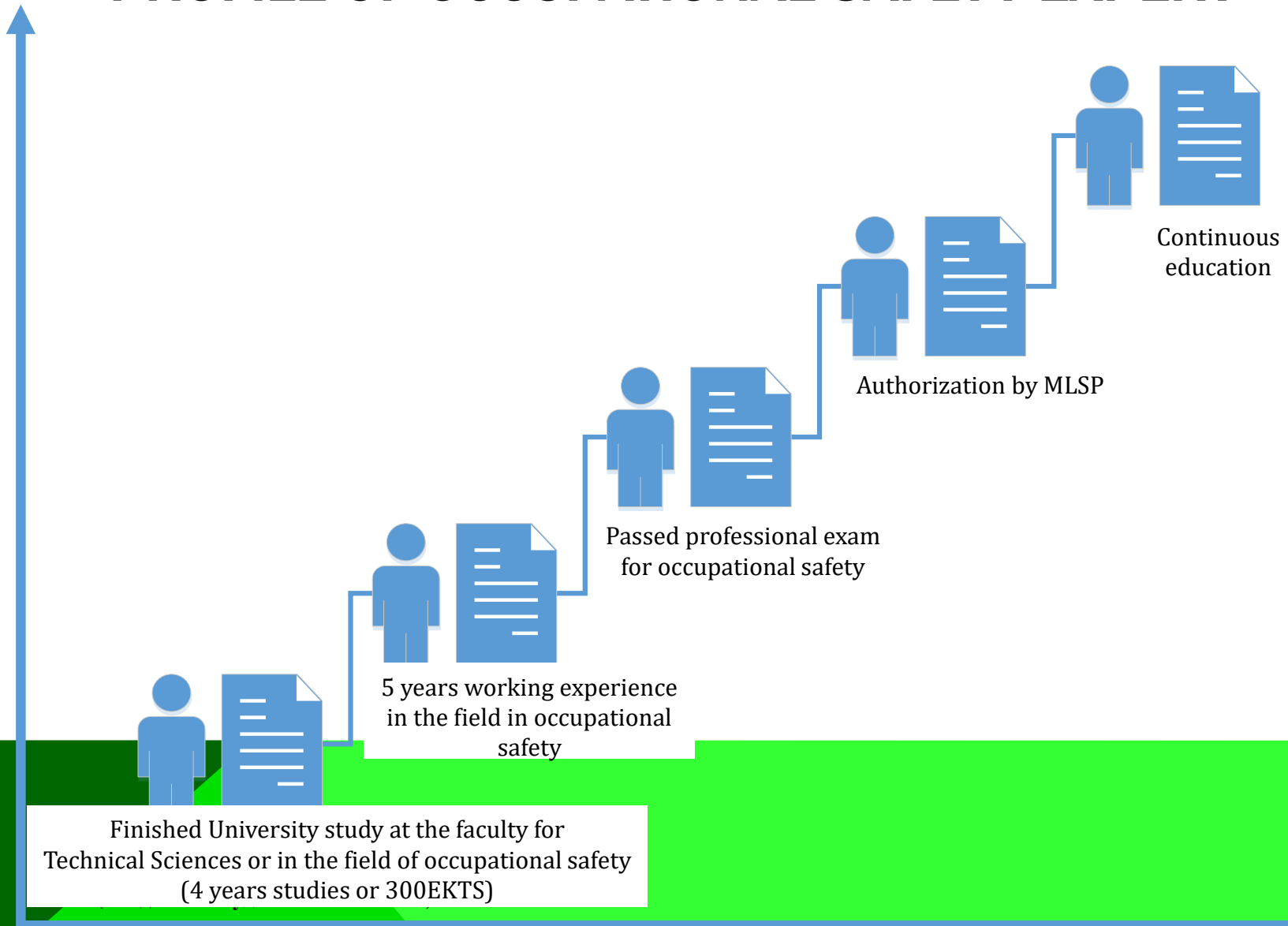
# YOUNG EDUCATION

Because of rising the awareness among the young population about the importance of their own health and safety, it is essential this area to be represented in the programs of primary and secondary education. Thus, students will be aware of the risks at work which may face from an early age and to recognize the necessity of developing a culture of safe work.

For this purpose it is necessary to include the area of safety and health at work in the educational programs provided by the Law on Primary Education and Law on Secondary Education.



# PROFILE OF OCCUPATIONAL SAFETY EXPERT



# STAFF COMPLETING STUDIES IN OSH ACQUIRE GENERAL COMPETENCIES:

- Ability to work in interdisciplinary teams
- Ability to analyze problems and design and synthesis solutions
- A recognition of the need for, and an ability to engage in life-long learning
- Ability to apply knowledge in practice
- Capacity for generating new ideas and solutions through the application of research methods
- Ability of critical thinking
- Ability to generate innovative approaches
- Ability to make decisions in real time (in time)

# BESIDES THE GENERAL, THE CANDIDATES HAVE DEVELOPED SPECIFIC COMPETENCES, SUCH AS:

- Research and anticipating the needs of companies in the area of OSH
- Expert knowledge of the areas studied by the study programs
- Ability to connect theoretical knowledge with their practical application
- Ability to use the techniques, skills, and modern engineering tools
- OSH Management System through preventive approach and aimed at sustainable development
- Manage the data through an integrated information system
- Perform consulting services related to the implementation, management and maintenance of systems for OSH



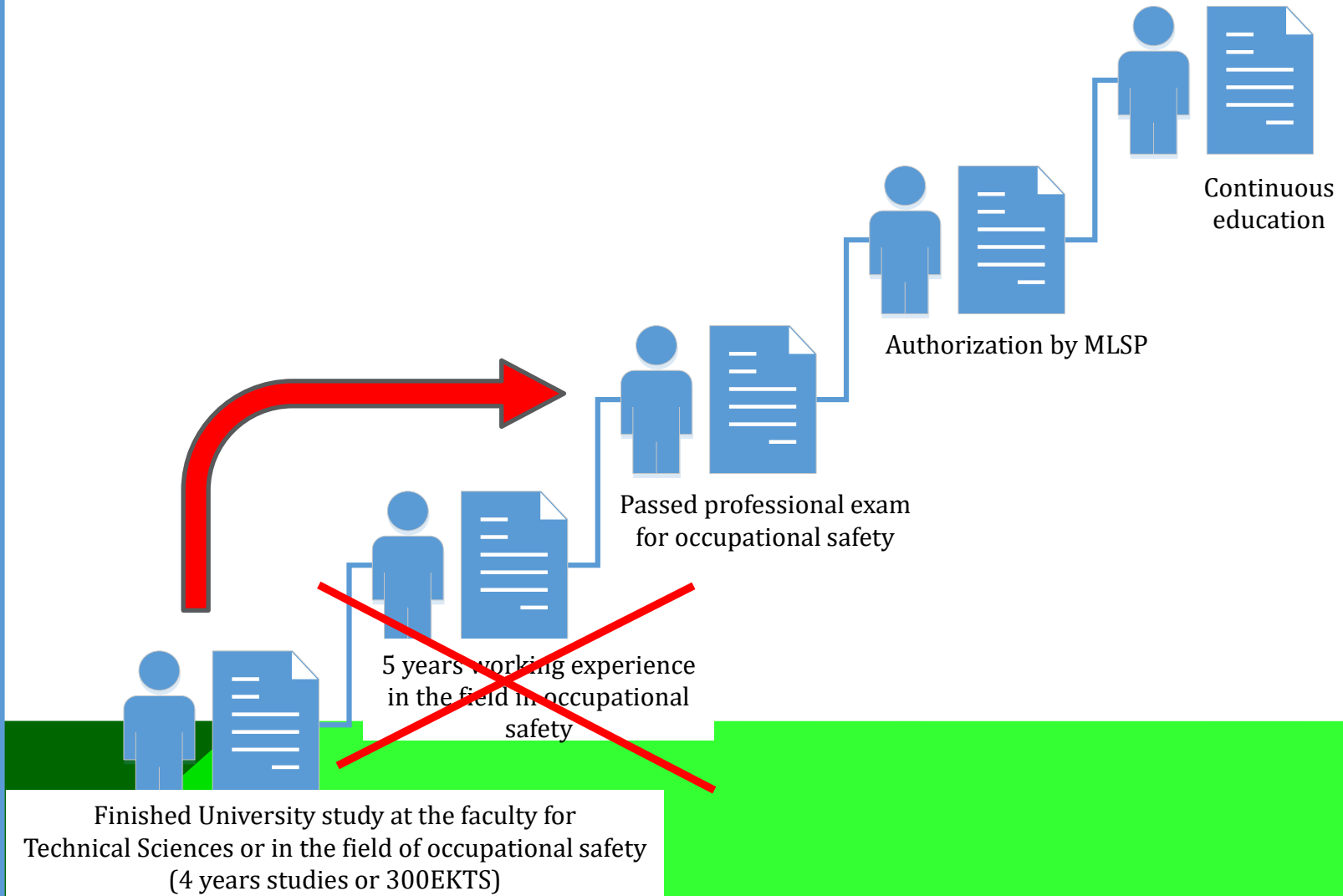
# RECOMMENDATIONS

**A profile of an occupational safety expert can be build through:**

- Accredited academic and professional study programs as well as specialized professional studies,
- Within the period of: undergraduate 3-4 years (180-240 ECTS) graduate and specialized studies 1-2 years (60-120 ECTS ),
- Acquired title: Graduate engineer in the field of occupational safety, Master in the field of occupational safety or Specialist in the field of occupational safety,
- Authorization of state institution, and
- Continuous education and development

# INSTEAD OF CONCLUSION

PROFILE OF OCCUPATIONAL SAFETY EXPERT



**THANK YOU FOR YOUR ATTENTION!**

