

THE ACTUAL CONTEXT OF THE OCCUPATIONAL RISK EVALUATION

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Keywords: occupational risks, ergonomics, work safety and health, production systems

Abstract: The paper presents some preliminary researches for the knowledge development in the ergonomics research field based on the integration of the co-operant sciences as: engineering, management, work safety, labor medicine, informatics etc. for solving complex problems link with the genesis of the occupational risks evolution, by using methods and tools from knowledge management. The paper complexity is demonstrated by the approach and the multidisciplinary way of solving the thematic and by the research-development and innovative activities' results (using the modern tools of information and communication technologies and of knowledge management). There will be presented some international/European trends and the Romanian context of the occupational risks evaluation. In the following there are presented some conclusions based on the reference research that was synthesis in the paper:

- The problems of occupational health and safety is of great interest because the aim to reduce and/or eliminate the time and the consequences of human operators exposures to different occupational risks. At international and national level, there are strategies of improvement of the statistical indicators concerning accidents and occupational illness.
- National statistics regarding working accidents, occupational diseases and absence from production due to occupational causes and accidents are not a reflection of reality and that is why the economic and social effects of this phenomena are hard to evaluate and stand as a base for coherent national strategies;
- At international level, there are a lot of available references, guides, specifications, national and international models aiming the management of occupational health and safety that had evolved in different proportions from country to country. Although there is still missing an international standard for systems of occupational health and safety management, that concerns for a managerial approach simultaneous with the standards for environment management systems;
- The Romanian laws are bushy and confuse in this field and in the last period, the specific legislation was drastic revised, but the spirit of European regulation was partly ignored.
- At international level there are concerns for the integration of the occupational health and safety in the organizational culture, but under the base and pressure of the certifications for the standards for the environment management systems. At national level, these concerns are disparate, often just formal without a real concern for the existence of sustainable work places. The multidisciplinary and trans-disciplinary approaches are missing;
- The concept of integrated-interdisciplinary approach for occupational health and safety is not present in the local legislation, and it continues to coexist a regulation that is dividing the individual health concerning from the work protection with a technical approach. In the field of scientific research appears the same fragmentation. It is noticeable that the exaggerate fragmentation of research and the achievement of scientific research only from one perspective: occupational health, public health (the studies about effects on the health and preventive health measures), the management of work safety, the security of work.
- There are no approaches for the management of occupational health and safety associated with the formulation, the development and the implementation of the organizational culture oriented towards minimizing/eliminating the professional risks for Romanian enterprises that would have a positive effect on the productivity of work and on the competitiveness.

Having these minimal considerations as a leaving point, the financed project in the field wants to accomplish integrative-interdisciplinary approaches that would offer an efficient and innovative system for occupational risk evaluation, with effects on the development and implementation of the safety culture in organizations. The financed project so call: ***“Interdisciplinary research for the occupational risk evaluation platform development with impact upon the safety culture in organizations”*** (CNCSIS ID 1022 in Romania) purposes to realize the development of knowledge in the field of ergonomics research for the solution of complex, border problems regarding occupational genesis of risks using methods, means and instruments that are specific to the management of knowledge.