

Acknowledgements

The authors acknowledge the financial support from the Ministry of Education and Scientific Research - National Authority for Scientific Research and Innovation, through the project PN 09-13 02 22, the work done by Luisa Roxana Popescu has been supported by the Sectoral Operational Programme Human Resources Development (SOP HRD), financed from the European Social Fund and the Romanian Government under the contract number POSDRU/159/1.5/S/137390.

II-O-7. ENTROPY MITIGATION IN THE QUALITY MANAGEMENT SYSTEM FOR THE ORGANIZATIONS IN THE FIELD OF ENVIRONMENT PROTECTION TRAINING

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Abstract

The paper shows other aspect for applying theories on the structure of a system through a practical and efficient approach in order to obtain quality results in training. It is presented in the aspect of environmental protection training. This is due to pollution alerts that generate worrisome changes of the environment.

The current global context, environmental protection requirements, economic and personal development, are reorienting the action directions regarding specialists training. The concept of "Lifelong education", a universal concept, humanist and visionary, promoted since 1970 by Paul Lengrand, now has a clearly defined outline in the policies of education

thought at European, national and international level and involves continuous contact with training organizations, with the environment in which knowledge and practical skills are applied. There is a double aspect: one of personal fulfillment and one out of economic and social objectives.

It is the transition period to an information-based society, a cerebral intensive society. It is seen a major concern impacting the emergence of new markets, new working relationships, leading to different styles of approach of training specialists based on methods and techniques oriented towards the individual to harmonize the humanistic, economic, managerial aspects, etc. - integrated and dealt with as a whole. Hence the need for a systemic approach, the need for a quality management system for LLL (lifelong learning or FPC in Rumanian Language), so that, the end result, professional competence, to be real, consistent, applied, proven and used effectively and efficiently.

And, because every technical, economic, humanistic phenomenon can be approached qualitatively or even quantitatively, in terms of the application of theories such as: the Systems Theory, the Theory of Entropy, the Information theory, the Constructual Theory, also in the quality assurance for FPC such analyzes can be done, of course, to achieve desired qualitative outcomes. The research is completed, in this way, regarding the quality of training in environmental protection by studying the relationships with the outside and the state dynamics within the system, the analysis through the cause-effect diagram.

The study of the system for mitigating the effects of entropy, reducing disturbing modulations, the entry into the resonance of the system in normal operating conditions and not in disturbing oscillations. The appearance of disturbance factors in different stages or parts of the system affects the smooth running of the system, especially the final result. It is conducted a study of the quality management system behavior in terms of entropy, from the time of installation of chaos. If there is clutter, and if the system cannot interrupt the process, once the disorder is installed, it will dominate. And, paradoxically, "it is orderly disorder"; but the fundamental concept of organization of the universe "Order out of chaos" generates action by methods and techniques of order, of organization. To avoid entry into resonance in the moment of disorder, or a moment in which "flow into the system is not continuous," as described by Adrian Bejan in the Constructual Theory, in order to insure quality it is possible to order,

ensuring normal functionality by organizing according to specific procedures and of the quality management system.

Quality assurance in CVT can be regarded as a dynamic system, with its varying input, status and output, a system whose elements interact both with each other and with the outside. But, perhaps more importantly, quality assurance for FPC should be regarded not only as a system, but as a body. It is recommended to focus on final causes, that any process, phenomenon, etc., must find a purpose. In supporting this view since antiquity Aristotle proposed that the system be regarded as the body. Experts say that for Aristotle, even "physics was an organism". Quality Management System thus must be regarded as a living organism with a life cycle, as everything from products, projects, ...and to living beings

Recovery is necessary, remodeling, harmonization to the current requirements. It is possible by benchmarks presence, by a legislation providing a "common language" for LLL at European and international level: European Framework for Quality Assurance in LLL, the National Group for quality assurance in FPC (in Romania), reporting and designing a professional training according to Occupational Standards in which there are specified the analyzed skills as required in the labor market both at national and European level with guidance issues from the ESCO portal, designing the training and assessment of professional competence based on proposed taxonomy at European level or International for initial education or continuous training and establishing the levels of training and expertise (ISCO, ESCO, ISCED, COR), the existence of legislation and harmonization of European Directives in the countries of origin (Directive 2005/36 / EC on the recognition of vocational qualifications at European level), the existence of an institutional system (ANC) and the district committees organized in all sectors according to NACE codes.

If we look further, what comes out of the system, conditioned by today's economic and social development context, will be targeted towards environmental protection, will result green skills which will be embedded in other occupations / qualifications, will result in new jobs / skills called "green", given the concern for sustainable development.

Keywords: *environmental protection, quality, continuous training, professional skills, green occupations, green skills, system, entropy resonance, information*