



THE ASSOCIATION OF POLISH ELECTRICAL ENGINEERS (SEP)

Report on Work Package WP2 with reference to business requirements and related qualifications

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Report on Work Package WP2 with the emphasis on business requirements and related qualifications

Work Package WP which concerned *“Contextual analysis and analysis of best practices”* was participated by the ELEVET Partners, whereas SEP played the leader role in the package.

At the beginning of 2012 all ELEVET Partners submitted their own documents discussing education and professional qualification acquisition systems in their countries in the view of national legislation. The systems were described in detail in the mentioned documents by individual countries. The documents were taken into consideration and attached to the following two documents prepared by SEP:

- 1) *“Compendium of best practices”*,
- 2) *“Report on existing qualifications and titles”*.

It has to be noted that all reports submitted by other Partners to SEP were prepared in various forms and in more or less detail, and as such it was difficult to compare them with one another.

This document emphasizes the most significant requirements as to business skills. It applies both to policies in enterprises and training courses for obtaining professional qualifications.

Based on averaged survey results (Work Package WP3, except for questionnaires filled in by international corporations) it is justified to state as follows:

- 1) with reference to requirements concerning work health and safety, the most important knowledge elements include:
 - knowledge about basic health and safety aspects,
 - knowledge about rights and obligations of employees in terms of health and safety,
 - knowledge about regulations on the operation of electrical equipment in the workplace,
- 2) with reference to safety requirements:
 - ability to anticipate threats to health and life when performing professional tasks,
 - ability to anticipate threats to property and the environment when performing professional tasks,
 - ability to employ personal and collective protection equipment when performing professional tasks,
- 3) with reference to employees' competence in business activity, the most significant elements include:
 - knowledge about regulations on business activity,
 - basic knowledge about labour law,
 - knowledge about management, quality management as well as national and foreign standardization,
- 4) with reference to expected skills associated with business activity, the most significant skills include:
 - ability to prepare and implement a team schedule in the view of specified priorities,
 - ability to conduct negotiations and make decisions,
 - ability to plan independently own education as well as inspire and organize learning of others,
 - ability to use office equipment and applications which support business correspondence and business activity,

- 5) with reference to the expected subjects of courses devoted to safety of persons and equipment, energy security as well as management and organization of works, the most significant issues include:
 - electric shock protection and measurements up to 1 kV,
 - safe operation of electrical equipment and systems,
 - life works up to 1 kV,
- 6) with reference to energy security, the most significant issues include:
 - optimization of power consumption in priority areas for an enterprise,
 - optimization of power-related technical and economic indicators in industrial plants,
 - optimization of structures consisting of industrial electrical equipment operation systems,
 - automation of MV and HV power grids,
- 7) with reference to work management and organization, the most significant issues include:
 - creating a team and communication in the group,
 - managing and motivating the team,
 - effective management of the team.

Obviously, the requirements may be slightly different in various countries and enterprises and as such the fact is to be taken into account. Therefore, the requirements as to employees as well as training programmes in courses for professional qualifications should be modified accordingly.



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