

Analysis of the Labour Market and Training Needs in the Field of Thermal Power Systems for Cleaner Environment: Evidences from the Asiaxis Erasmus+ Project

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Abstract

This paper presents the results of a survey on the labour market and training needs in the field of Thermal Power Systems (TPS) for cleaner environment. The survey was carried out in the context of the ASIAXIS Erasmus+ European Project. The ASIAXIS project addresses the topical theme of University Teaching, at bachelor and master level, in “Thermal Power Systems for Cleaner Environment” in Chinese, Russian and Kazakh partner Universities. The goal of this project is to align quality of courses with EU requirements by implementing EU standard quality assurance on the content of modernised modules, on their teaching methods and on examination procedures. One of the objectives of the project is to increase employability of graduates by national and international industrial companies across partner countries and EU. The first step while designing a Student Centred Study Program is the identification of the educational needs by consulting relevant industries, labour market organisations and other stakeholders.

Hence, in the context of the ERASMUS+ ASIAXIS Project, a survey on the labour market training needs has been realized by the consortium. More than 100 institutions have been identified for the survey: 60 have already replied. These institutions are characterized by a significant number of employees and an international market. In general, the survey has confirmed the interest on engineers with enhanced knowledge on Thermal Power Systems (TPS) on the topics that the Universities of the partners Countries proposed for their modernization. Moreover, the results highlighted the relevant perspectives of employment for engineers with enhanced knowledge at all University levels (master in particular). More in details, the main fields requested are: Internal Combustion Engines and Combined Heat and Power; while the most needed skills are: control and automation, data analysis and predictivemaintenance, structural analysis, CFD.