



ACADEMIC YEAR 2016 – 2017

TITLE OF DIPLOMA THESIS:

Creation of a "Toolbox for greek engineers who intend to work abroad

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ABSTRACT

The purpose of this Thesis is to create a toolbox that will help both engineers intending to operate abroad and those who are already working outside Greece and those who have already expatriated and are currently working abroad, to increase their efficiency and help them evolve professionally. The aim of this Thesis is to create the structure and content of a toolbox, define the elements of the tool which facilitate the work of the engineer abroad and lay the foundations for its further development. In order to write this paper, an online research was carried out and other data from past work of the course 'Construction Management in the International Environment', diploma Theses, scientific publications, lectures from specialists and questionnaire research were carefully examined. Initially, the "brain drain" phenomenon is presented in correlation with the outlook of extroversion, also the activity of Greek engineers abroad and the opportunities that Greek engineers can exploit abroad. Follows a review of the global construction market, the presentation of the actions of Greek construction companies and individual engineers abroad and the identification of opportunities for Greece. Also, the Engineering Project Management in the International Environment is presented. Next, the questionnaire survey that was carried out to collect the data is presented followed by the analysis of the structure by sections and the description of the sample selection. The description of the pilot research and the final stages of the survey is mentioned later and the data are analyzed utilizing statistical methods. Finally, the main conclusions that have been drawn are stated. Taking into consideration the conclusions of the questionnaire and the knowledge of the Experts the contents of the toolbox are defined, ie the thematic units that will be included and the definition of the sources of its data. The architecture and the contents of the toolbox are presented afterwards. The toolbox's structure is analyzed, the recorded data are mentioned, its extension and continuous updating are suggested, as well as its improvement and development, offering assistance to Greek engineers. Finally conclusions drawn from the analysis of the issues of the Thesis and proposals are made for the expansion and continuous improvement of the toolbox in order to obtain the necessary response and become a useful tool for every engineer, fulfilling the purpose of its creation. The toolbox took the form of a website named "GENITO", a name derived from the letters contained in the English words Greek ENgineers Abroad TOolbox, hosted on the website of the Postgraduate Study Program "Engineering Project Management", <http://cmp.civil.auth.gr/genito>.

KEYWORDS



Brain drain, exroversion, toolbox, engineers abroad, Project Management