Abstract Template

Abstract Title: Managerial skills and emotional intelligence of Civil Engineer

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Abstract (not more than 300 words)

In the VUCA environment of today's world, civil engineers must integrate a wide range of competencies, in order to maximise their personal and professional potential.

Civil Engineer training is recognised internationally for its high level in subjects such as: mathematics, physics, geometry, calculus, chemistry, mechanics and hydraulics. The excellence in these subjects requires an optimal development of rational intelligence, and therefore a traditional high IQ.

However, subsequent professional development contrasts with the difficulty of these professionals to successfully manage all the variables found in the execution of the projects assigned to them.

The execution of civil engineering projects implies, usually, the sum of the opposite interests of stake holder. The civil engineer must have managerial skills that include key elements, such as personal development. A three-pillar model is recommended: Self-knowledge, awareness and emotional intelligence.

This thesis analyses and identifies the key managerial skills that a civil engineer must possess in order to successfully develop personally and professionally, by increasing his/her self-knowledge, awareness and emotional intelligence.

In order to identify the key competences and contrast the hypotheses of this research, the Delphi method is used. Interviews and surveys have been carried out with a significant sample of active civil engineering professionals.

Keywords: civil engineer, emotional intelligence, management skills, self-knowledge, awareness, skills development.

Professional Biography (100-150 words)

Javier Aguilar Villajos, is Civil Engineer. He is currently studying for a master's degree in organizational and PhD in Management Department of Polytechnic University o of Catalonia. He combines his studies with his professional development as general director of a construction company for 15 years. He has extensive experience in the management of construction companies and knows the needs of the civil engineer profile.

Between 2006 and 2012, he performed the functions of general manager in a railway infrastructure construction company. In 2012 he created his own company.

Nowadays it has become a company with 70 workers, almost 20 Civil engineers and they work on the railway infrastructure and civil works.

In 2011 he began the study of complementary training to deepen the knowledge of the development of managerial skills in the field of psychology.



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