

The method of selecting employees in the system of visual quality control of wood-based panels

SUMMARY

The dissertation presents the concept of a model for selecting employees for visual quality control (VQC), taking into account the relevance and difficulty of the process, set in the reality of a system, taking into account the specificity of the wood-based products industry. The literature research carried out within the dissertation allowed to identify the key features of an ideal quality controller, to indicate the factors affecting the process of visual quality control, as well as aspects related to the difficulty and relevance of the process, conditioned by the characteristics of the object of visual inspection and its attributes. Thanks to the analyses carried out using Thurston's method for the results of the questionnaire surveys, it was obtained classified in terms of importance, desirable attributes and classified in terms of importance factors, crucial for the correct execution of the VQC process. The application of the TOPSIS method for the data obtained from the assessment of inspectors according to the form proposed in the paper, allowed confirming the method in terms of the classification of visual quality control workers, due to their approximation to the ideal - in terms of having the desired, indicated, classified qualities. The selection of an appropriate inspector for the tasks associated with work in the area of VQC is conditioned by the difficulty and significance of the process. The literature research provided knowledge about the factors conditioning the difficulty and relevance of VQC. In order to evaluate according to the indicated factors, a checklist was proposed. The application of the list will provide an answer to the question of whether a given VQC process is relevant and difficult. The last stage of the research was the analysis of the environment, the working conditions in which the VQC process is carried out. Also in this stage, the literature survey provided information on the factors that characterize the correct execution of the VQC process. In order to evaluate a given position, a checklist was proposed in the dissertation and the importance of individual characteristics was indicated, which will facilitate the process of introducing corrective actions, if necessary.

The analyses and tools elaborated in the thesis form a method for selecting employees for VQC in the wood-based industries, in the system, which consists of a human being, a technical object and the environment together with the interactions between them.

Key words: employee selection, visual quality control system.