TYTUŁ, STRESZCZENIE I SŁOWA KLUCZOWE W JEZYKU ANGIELSKIM

Title: The decision matrix for selecting a method of production improvement

Author: Celina Bartnicka

Key words: the decision matrix, selecting a method, improvement of production processes, production problems

Summary: The dissertation presents a new way to select an effective and production-improving method out of a list of know methods. The first chapter reviews the literature on process improvement, presents problems and losses in production, lists improvement methods, as well as criteria that may be used in their selection. Information from the literature review has been used in preparing a questionnaire that has been presented to fill in production companies, mostly ones dealing in furniture making and vehicle production. The dissertation also characterizes machinery parks of the companies. On the basis of the questionnaire results, a selection of problems, criteria, and methods for a decision matrix has been made. The key element of the dissertation is made by the third chapter where a solution has been provided. The decision matrix indicates the best method or several methods depending on a defined production problem and requirements that are described by selected criteria. Two case studies have been selected to verify the method and they have proved that the objectives of the dissertation have been reached.