

MODELING OF PRODUCTION PROCESSES – REVIEW ARTICLE

STĘPIEŃ Monika, GEMBALSKA-KWIECIEŃ Anna

Silesian University of Technology, Faculty of Organization and Management
Roosevelta 26-28 str., 41-800 Zabrze, PL
E-mail: monika.stepien@polsl.pl, anna.gembalska-kwiecien@polsl.pl

Abstract: The purpose of this paper is to present an available methodologies that may be the basis for modeling production processes. In literature there are many affordable methods and notations for modeling processes, but they are still not widely used in companies. Choosing the right methodology and tool for modeling processes is not as easy as it appears. It requires, first and foremost, a thorough analysis of the production process, an understanding of the purpose for which the process is modeled and the appropriate selection of that method, which will allow for a simple and transparent presentation of even a complex production process. Although the methodologies available on the market are not the most difficult and actually allow for a clear presentation of the production process, the companies do not always decide to use them. The high cost of buying the right modeling software and the time it takes to devote to the specific activities to create the model of the production process are quite significant. Few companies see the real benefits that a given methodology can bring, and most of them present the production process in the simplest form – using only a flowchart.

Keywords: process modeling, production processes, methods and notations of process modeling, modeling tools.