

SAKARIN NAKORNTHAB : AN APPLICATION OF A PREDETERMINED TIME SYSTEM FOR THE JEWELRY INDUSTRY. THESIS ADVISOR : ASSO.PROF. JAROON MAHITTHAFONGKUL, SURAWAT AYUWATHANA, 545 PP. ISBN 974-582-074-1

Jewelry industry is one of the most important industries in Thailand that is export-oriented and labour-intensive. Its production has numerous model and losses occur from the lack of tools and equipment for planning and preparations for productions. Standard data and time formula could serve as an instrument for reducing problems. Usage of predetermined time system is one way for creating data.

The purposes of this study is 1) Construction of standard data and time formula for the functioning of jewelry industry, through a MTM which is one of the predetermined motion time system principally and assisted by computers. 2) For use as a standard for Jewelry Industry. 3) For use as reference material by other similar industries.

Creation of standard data through the predetermined time system for the study comes in 7 steps as follows: 1) Preliminary survey and standardize of method 2) Definition work coverage 3) Classification of work element 4) Determination of manual element times, development of process element times and summerizing of all data and formulas 5) Determination and coding of work elements 6) Testing of data for validity 7) Processing by computer programs and preparations for final reports.

This research is conducted under three departments of production of jewelry as follows: Finishing department, Setting department and Polishing department. It can be summerized that it is possible to create standard data and time formula it is possible to set standard at a certain level. Moreover, the standard data and time formula can be developed for use in other models of works to be modified. The advantage of this characteristic is that it could make the standard data and time formula to be use in other related industries.