

## C215883 : MAJOR INDUSTRIAL ENGINEERING

KEY WORD: JUST-IN-TIME/ASSEMBLY LINE

PRASERT THUNCHAROON : JUST-IN-TIME SYSTEM FOR ASSEMBLY LINE  
OF PICK-UP TRUCK FIBER-TOP : THESIS ADVISOR : ASSO. PROF.  
CHAROON MAHITTAFONGKUL, 121 pp. ISBN 974-583-656-7.

In this research, the research brings the just-in-time system adapting with assembly line of the car in purpose of reducing the cost which occurs from material's damage of loss in the assembly line. Beginning of the operation research, the researcher designed fiber-top assembly line with the car. By studying the process of the assembly, time, how to develop work and line balancing, then designed just-in-time system by using the kan-ban card after that keeping material consumption data in this new assembly line before compared with the old one.

The result show that the fiber-top assembly line's management with the car should be developed especially in the first period of experiment. Using just-in-time system or kan-ban system can control better material consumption. The supervisor could be able to control material's damage more efficiency, in the short time, material's damage data or unqualified material could be sent to the administrator immediately. The summerize of the material's damage is that glass's damage reduce 4.83 %, rubber's damage reduce 4.6 % and metal's damage reduce 2.8 % but the decorate's material cannot be summerized because of this kind of material could be repaired.