

## C016325 : MAJOR INDUSTRIAL ENGINEERING

KEY WORD : PRODUCTIVITY IMPROVEMENT/AIR CONDITIONER FACTORY

THONG-MOH PHUNGPAI : PRODUCTIVITY IMPROVEMENT OF A SMALL AIR CONDIT-  
IONER FACTORY IN THAILAND. THESIS ADVISOR: ROASSO, PRO. WICHIT TANTHASUT,  
MR. SOMYOS KIRATICHewan, 244 pp 97/ISBN 19742581-548-9

The purpose of this research was to study problems in a typical small air conditioner factory in Thailand and to apply theories of industrial engineering for solving the productivity. This finding was purposed for future productivity improvement in same factory.

The result of this study reveals most problems that effect production and management, factory planning and layout, production processes , storage areas and balancing production line. All these problems bring about a low production efficiency. This research has suggested methods to improve productivity by way of organizational restructuring , setting up a new plant layout , redesigning of production areas , storage and dispatching systems , and balancing production line assembly.

The result of this research has increased condensing coil unit from average 3590 units/month to average 5507 units/month or 53.39% and uplifted fan coil unit from average 3617 units/month to average 5578 units/month or 54.22%. It has also improved the production rate per man-hour for condensing coil unit from 0.095 unit/man-hour to 0.144 unit/man-hour and for fan coil unit from 0.096 unit/man-hour to 0.146 unit/man-hour.