

## C116146 : MAJOR INDUSTRIAL ENGINEERING

KEY WORD: PRODUCTION PLANNING/GARMENT FACTORY/PERT LOB TECHNIQUE

JIRAWAN KLOYPAYAN : PRODUCTION PLANNING IN A GARMENT FACTORY BY

USING THE PERT LOB TECHNIQUE. THESIS ADVISOR :

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In production process, poor planning and follow up system causes the delaying of the target or short of product for each order. This research show planning and technical follow up "PERT LOB" by using garment industry as study case. The study divided in three parts. First part used Program Evaluation and Review Technique (PERT) in planning. This part showed how to set up networks and how to calculate completion times. Second part used Line of Balance (LOB) to show how to monitor and control work. Third part was to adjust production by considering total capacity and planning in each departments to switch the production plan to prevent the problem that could happen. IN this study a computer written in FOXPRO is developed in three parts; PERT in planning, LOB in follow up and schedule modification which will be used by management and related group in production to systematically help in planning and follow up the planning and whenever any problem occurs can immediately capable solve it.

This research can be used in the factory which has the same production system. The problem that can be occurred come from the difference style of the products which effect on how to set up network and working time. This problem can be solved by using expert who know well in this technique and has more experience in his work.