

Montha Intaraprecha 2012: Applying Lean Technique to Reduce Processing Lead Time in Electronic Part Industry. Master of Engineering (Engineering Management), Major Field: Engineering Management, Faculty of Engineering Sri Racha. Thesis Advisor: Professor Emeritus Ampika Krairit, M.S. 147 pages

The objective of this research is to present the means to reduce Lead Time in electronic Manufacturing for Audio group. The current state of the selected plant lead time for production is 1.88 days or 45.12 hours. Lean technique approach has been used to solve the long lead time with implementation by PDCA. Main tools for solving are: application of Pull Production system, Kanban System, Inventory management, Supermarket System, Replenishment of material by 2 Bin System and Management of the Bottleneck of the production line, such as improving plant layout and line balancing.

The results show that when implementing production flow from Push Production system to Pull Production System and installing Kanban System to become the main process in the production flow, improvement results are as follows lead time is reduced to 0.51 days or 12.20 hours, improving the Production Capacity by 7%, and lowering work-in-process inventory by 72.9%. This results in reduction of manufacturing costs. The number of manpower required for the production before the change of 27 man becomes after the balancing process 19 man, resulting in line efficiency increase to 92%, with total cost saving of 1,301,760 baht per year.

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Student's Signature

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Thesis Advisor's Signature