

Marisa Misa 2019: Line Balancing: A Case study of Freeze Dried Shrimp Manufacturer.  
Master of Science (Agro-Industrial Technology Management), Major Field: Agro-Industrial  
Technology Management, Department of Agro-Industrial Technology. Independent Study  
Advisor: Assistant Professor Pornthipa Ongkunaruk, Ph.D. 82 Pages.

At present a freeze dried shrimp manufacturer faced a low efficiency % production. This research aims to improve the production efficiency in a freeze dried shrimp. The case study needs to enhance the customer service level by eliminate waiting time and works that do not create value. By line balancing and ECRS concepts (Eliminate, Combine, Rearrange, Simplify) The current production line is discontinued and has long waiting time, The tools used in this research are business Integration Definition for Function Model or (IDEF0) to analyze problems, and propose ways to improve For data collection and analyze the cause of the problem, the work study and process improvement by line balancing and ECRS guidelines, the results found that the production cycle can be reduced by 400.44 minutes or 96.81%, which is the waiting time in loading product to fill the pallet, and to finish the lot, the overtime cost is reduce by 228,247 baht per month, increasing line efficiency from 13.95% to 60.40%, increasing by 332.97%, allowing the product to be packed according to customer needs. Reducing redundant work reads to reduce the work station from 22 stations to only 10 stations. In the future, we can implement

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