

GUIDELINES TO RESOLVE DELAYS IN THE DELIVERY OF SPARE PARTS, TEXTILE PRODUCTION DEPARTMENT, KKF CO. LTD.

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Abstract

This independent study about problem of failed to delivered spare parts of textile machinery as date set, result in delay of delivery. KKF Company Limited had to study the issue of delay in delivery parts of textile machinery, in order to adopt development guideline to use for improve resolve in delivery spare part of textile machinery by production department. Use Pareto diagram as tool to find the issues within the subject that need to be solved. The Fish bones diagram use for the causes of issue and brainstorming to find the guideline for resolve of delivery spare part of machinery. The study result found that the main issue for resolve in delivery spare part was the spare part were not pass quality control, which had reason from staffs were lack of awareness and concentration at work, did not check the work model and did not examine the spare part before submit to audit. There were 4 guidelines for resolve in delivery spare part as follows 1) elevated craftsmanship 2) Inspection form 3) Provident Fund, and 4) Increate monthly income.

Keywords: Resolve Development, Delivery, Spare Parts for Textile Machinery



INTRODUCTION

Economic status at present time affect to every business become highly competitive. Every organization had to adjust and constantly develop for the survival of business and to have the right capacity to compete with competitor within marketing section. Organization that could success of survival and have the profit; producer must find the quality in productivity and cost control production without affect to the quality of production and service; and respond correctly to customers' demand along with on time delivery product to customer.

KKF Company Limited was establish since 1977, head office is at 115 Moo17, Mittraphab road, Nimuang municipality, Muang district, Khon Kaen province. Operate business about types of nets or fishing equipment. Currently consisted of 7 branches, have 500 woven net machine, 5,000 staffs [2] which consider as a large company that need large number of staffs, which cause high cost and high expenditure. Thus managerial staffs must come up with various methods that could reduce the cost of productivity, in order to make company, staff and customers survive and all profit. From the productivity process of net or fishing equipment, to have the good quality net then it ,must had maintenance and adjust the textile machine constantly. Also order of spare parts by maintenance department of KKF Company Limited can divided into 3 main categories which were,

1. Normal work is incoming order to produce, then plan the production in order, the order come in before and after can received the part as planned. Targeted deliver with KPI 97%.
2. Monthly work is the maintenance department plans in order to make an inventory reserve every month, time to produce within 30 days. Targeted deliver with KPI 97%.
3. Urgent work is the very urgent, more important than normal work and monthly work above, because it is the work that every station must perform immediately, and require spare part of machinery immediately or as soon as possible. The pause of service to maintenance during production is valued assess damage per machinery per day higher than the above. Targeted deliver with KPI 100%.

From the delivery of spare parts for textile machinery for fishing net factory found that part production unable to delivered spare parts on time, which affect to the KPI of company that maintenance department, cannot finish on time. (Figure 1) Also create the big lost of production cost. Data between Januarys to April 2015 found that there were 86 items of delayed in deliver (7.83%), calculate value about 854,118 Baht in loss. [3] From such an issue, if it were not solve the problem it would affect to other 7 branch of fishing net factory that all will be produced with delay in delivery, as a sequence, also impact to profit and cost of production.

Thus, researcher who were staff of KKF Company Limited aware of this issue, thus the study in delay issue in delivery spare part of textile machinery by production department of KKF Company Limited; and adopt the resolve development guidelines in delivery spare parts for textile machinery of production department, KKF Company Limited.

OBJECTIVE

1. To study the delay issues in delivery spare parts for textile machinery of production department, KKF Company Limited.
2. Adopt the resolve development guidelines for delivery spare parts for textile machinery of production department, KKF Company Limited.

Methodology

1. To study the delay issue in delivery of spare parts for textile machinery by production department, KKF Company Limited.

The study of delay issue in delivery spare parts of textile machinery by production department were study by collected data from monthly reports of quality issues between Januarys to April 2015. Use collected information create Pareto diagram [4] to prioritize the issue of delay in the delivery of spare parts for textile machinery. Then used it as heading in analyzed for the cause of issue, by brainstorming with staffs from production department and quality audit department. Set cause of issue in 5 sections (4M1E) consisted of Man, Machine, Materials, Method and Environment at work, and present the cause of issue with Fish bones diagram. [6]

2. The preparation of guidelines to resolve the delivery of spare parts, textile production parts KK F Company Limited.

Bring the cause of urgent issue and able to fix immediately, set a plan to find ways to improve the delivery of spare parts, textile production parts. Use brainstorming with representative staffs from production department and quality audit department. Create guidelines, procedure, time frame and responsible person. Then, follow the guidelines that have been established. Along with the recorded to use data compare the delivery of spare parts for textile machinery, pre and post operation.

Result

1. The study result of the delay in delivery of spare parts for textile machinery by production department of KKF Company Limited.

The quality issue report of January to April 2015, which had delays in the delivery of spare parts for textile machinery by production department consisted of 3 issues which were 1) spare parts for textile machinery quality 2) pause operation for urgent work and 3). waiting for material Used data to apply with Pareto chart, to select issues and solve the delay in delivery of spare parts for textile machinery by production department of KKF Company Limited. Choose the issue that cause damage to solve base on the 80/20 rule of Pareto diagram, which was spare parts for textile machinery was not pass the standard quality (Figure 2), and bring the issue to find with 5 main factor that were Man, Machine, Material, Method and Environment at Work. Present the origin of issues with Fish bone diagram with the cause of issue as follows:

- 1.1 Man: the reason was staffs lack of awareness and concentration at work, wrong design of work, did not check work order, did not follow the procedure and did not examine the spare part before submit to quality audit department. The spare parts did not pass the quality



of quality audit department, it had to sent back to adjust or make new spare part, which cause the delay in delivery of spare parts for textile machinery.

1.2 Machinery: the reason was machine broke down during production process, because staffs did not perform examination of machinery before start using it to produce. Cause the incorrect pattern of spare parts for textile machinery.

1.3 Method: the reason was the pause of machine production to change for urgent work. It had to paused other machine productivity of textile in order to produce the urgent work immediately, and the production department did not examine the produced spare parts for textile machine before submit to quality audit department.

1.4 Material: the reason was that the production department received material late than expected as the delay from suppliers or purchasing department order wrong material.

1.5 Environment: the reason was environment at work were not encourage staffs to willing to work.

2. Guidelines for development of resolve in delivery spare part for textile machinery by production department of KKF Company Limited.

From the Fish bone diagram found that the urgent issue that can be solve immediately was staffs. Then brainstorming with staffs from production department, quality audit department and executive team and obtain the development guidelines for resolve in delivery spare parts for textile machinery by production department of KKF Company Limited, with 4 guidelines which were 1) elevated craftsmanship 2) Inspection form 3) Provident Fund, and 4) Increase monthly income. The budget to complete operation was 500,000 Baht.

CONCLUSION

The study result found that cause of issue that was urgent and able to fix it immediately were 1) staffs lack of awareness and concentration at work, 2) wrong design, 3) did not check work order, 4) did not follow the procedure, and 5) did not examine the spare part before submit to quality audit department. The spare parts did not pass the quality of quality audit department, it had to sent back to adjust or make new spare part, which cause the delay in delivery of spare parts for textile machinery. There were 4 guidelines as follows 1) Elevated craftsmanship 2) Inspection form 3) special bonus 4) aiming to win the tour program. The budget for the guideline budget was 500,000 Baht. After start the project operation found that production department can deliver work as targeted by KKF Company Limited.

SUGGESTION

The main issue that causes the delay in delivery was staffs issue. Therefore, production department of KKF Company Limited should focus on improve craftsmanship expertise; build staff morale which would make them feel commitment to the organization, in order to make employees aware of the importance of protecting the benefit of the company.

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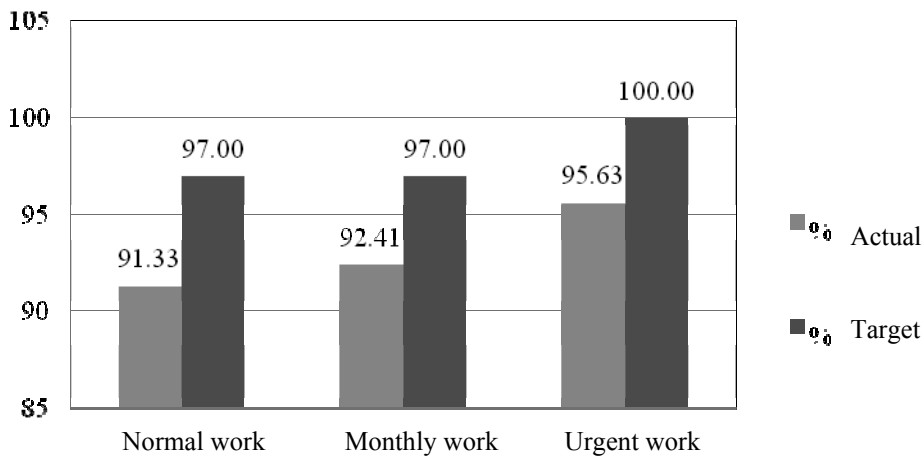


Figure 1 Delivery data report between January and April 2015



Figure 2 Pareto diagram for work delivered volumes between January and April 2015