

Implementation of Quality Function Deployment in Pipe Industry

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ABSTRACT

In market these days an “n” number of pipe manufacturing Industries are being enlarged, still enlarging its dimensions of fabrication and its associated process on a total basis that creates an actual competitive atmosphere then a competitive environment. Toward accomplish a most comparable market’s part popular such a competitive market needs to get the application of a plain industrial technique popular a most affordable and in a more real way. The front greatest leap toward gets fast in this marketing race is to put a novel design for products to have a slight difference to meet the customer’s requirements. To meet customer requirements is a large threatening diffident phase and has a straight before in-direct relationship through the designing of quality. There are a large numbers or huge investigation study consumes remained carried available and these studies are based on qualitative approaches in industrial and production issues along with designs. Our study mainly focuses on QFD method that is used in industrial design application.

INTRODUCTION

This paper is a mere attempt to originate awake with a strategy of Quality Function Deployment (QFD) to small rule and medium scale sector in Indian Pipe Industries then to improve the quality that has been involving a lot of analytics and intense implementation costs. The major expectation of taxes is to content them own needs smooth that remain not existence perfectly clear. The major customer’s expectation remains 1. Required Functions to be present 2. Optional Functions and New Features. In general, QFD is a planning instrument that confirms the speech of the customer is existence deployed throughout the product planning then design stages. The major objective of QFD remains toward classify the real language(Wants) of the client then have use to the information to grow crops that content customer’s wants and fulfill their satisfaction. It too aids the organization and also in analyzing all the relevant information in regard to the project. In crystal size way QFD assistances to translate the customer’s speech (Need) into essential gratification. Initially QFD has it’s beginning with marketing that helps in determining exactly what the customers look forward to having after the creation. Usually, the wants and satisfaction if finish user remains intangible remained it can only be felt rather understood. The satisfaction after the creation container remains felt by the feedback and comments after the end-user. Cutting-edge general, there remain various basis that helps in decisive the satisfaction level of the client some of them are Emphasis Collections, Surveys, Grievances, Consultants, Ethics and Federal Regulations. For this training we use a practice called House OF Quality (HOQ) a tool associated with Excellence Function Placement.

LITERATURE REVIEW

Implementation of QFD in Pimp Industry- D Premkumar and M Balamurugan (2016)

In this paper the author has studied the market competitiveness and the steps to be taken to capture a reasonable market share that can be implemented to meet the production techniques in an effective way. To make this study the author has tried in implementing QFD in Pump Industry. In this study the author has taken steps in knowing customers’ requirements, perception and target to create a QFD matrix with the help of HOQ tool. In the result the author has concluded the various outcomes along with its benefits on implementing QFD in the determined industry.

An Intelligent Quality Function Deployment (IQFD) For Manufacturing Process Environment – Kasom M. Daws and Zuhair A. Ahmed (2009)

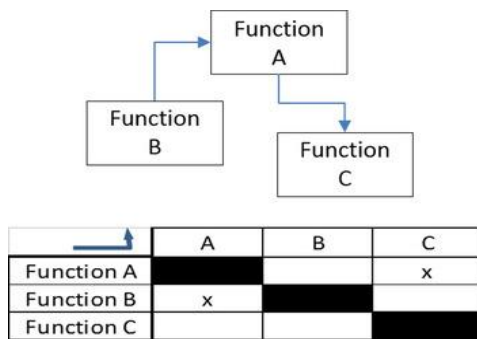
In this paper the scholar has given the scope of QFD on a world-wide basis because of its outstanding usefulness and benefits. In general, from the authors’ point of view QFD is being used in major organizations because of three basic reasons namely 1. To eradicate the time spent on creating an outline and developing the created outline or design 2. It focuses on the satisfaction and at-last in improvising communication level at all level of the organization. On the view from the author this QFD can be used to analyze into three major branched that help in development of the organization.

An Application of Quality Function Deployment Techniques in Developing Existing Products - S A Puviarasu (2016)

This study is a bit different from other study as this paper deals with implementing QFD to develop existing product whereas other study is based on implementing QFD in a new sector than in existing sector. Here HOQ is being implemented to design and to have a new modified type of pump. At the end the author has concluded that the technique of QFD can be used in processing the developed/modified centrifugal pump to have an increase in level of customer satisfaction.

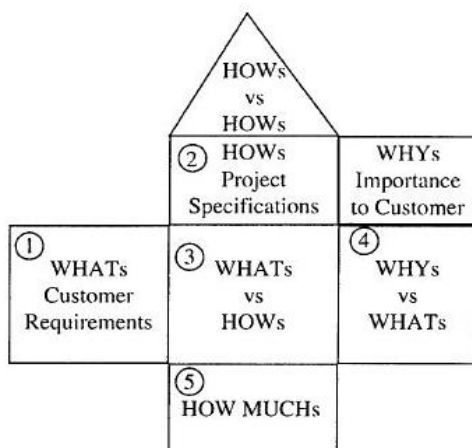
Quality Function Deployment Based Expert System for Material Selection – Kanika Prasad Et.Al., - (2016)

The major focus by the author in this study has been majorly on the material selection in an organization. This is because the type and quality of material and the system used for selection has an important role in the economic development of both the organization and the market share growth. In this study the author takes in consideration the basic qualities that a material in basic must possess and has concluded in the end the use of HOQ in material selection and its benefits.



Implementation of QFD in Pump Industry - M. Avinash and V. Jayakumar – (2014)

In this paper the author has studied the market competitiveness and the steps to be taken to capture a reasonable market share that can be implemented to meet the production techniques in an effective way. To make this study the author has tried in implementing QFD in Pump Industry. In this study the author has taken steps in knowing customers' requirements, perception and target to create a QFD matrix with the help of HOQ tool. In the result the author has concluded the various outcomes along with its benefits on implementing QFD in the determined industry.



PROBLEM DEFINITION

Implementation of QFD Methodology in one of the pipe manufacturing small scale unit to solve their problem in failing to meet the customer's commitments

METHODOLOGY

In general, the methodology used in Quality Function Deployment is limited where questions such as who, when, where, what, how are to be answered using a simple customer

satisfaction method from various methods. Among them we use questionnaire methodology to get the questions about quality and need of various changes answered by the respondents. The output from the respondents are put in matrix form and got them analyzed in detail. The questionnaire in general consists of questions regarding quality, perception and benchmarking level comparison

CONCLUSION

Toward successfully controller the flow of stock in storeroom it is essential to know real and careful info around lists of goods and their careful place in a shelf. Through the sustenance of simulated model, these facts are available at any time and everybody can effort with them. With the ability to display statistics of individual storage locations, conveyors and utilization of all people, management can better analyse the storage activities. These results can be based for optimization of the average stock of each product. The basic disadvantages of using simulation models for the management of material and information flow in the warehouse can include increased demands on the input information for the simulation model and the associated time to create the model. On the other side, simulation methods are very powerful in a very thorough analysis of the whole process of stowage. It is imaginable to effort to other discrepancies of alteration and screen the wanted level of efficacy of the all course. Replication means ought be charity where the submission of usual investigative means, we do not attain the wanted level of development.

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