

A Case Study on Quality Function Deployment (QFD)

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Abstract: Quality Function Deployment (QFD) was conceived in Japan in the late 1960's, and introduced to America and Europe in 1983. This paper will provide a general overview of the QFD methodology and approach to product development. Once familiarity with the tool is established, a real-life application of the technique will be provided in a case study. The case study will illustrate how QFD was used to develop a new tape product and provide counsel to those that may want to implement the QFD process.

Quality function deployment (QFD) is a "method to transform user demands into design quality, to deploy the functions forming quality, and to deploy methods for achieving the design quality into subsystems and component parts, and ultimately to specific elements of the manufacturing process."

Keywords: Quality Function Deployment, Tape Product, Product Development, Design Quality, Manufacturing

I. Introduction

Quality Function Deployment (QFD) is a quality tool that helps to translate the Voice of the Customer (VoC) into new products that truly satisfy their needs. In this paper, QFD will be reviewed in order to understand how it works, to highlight its strengths and weaknesses and to discuss its practical applications. The first part of the paper will present an overview of QFD and explain the methodology. QFD will be defined and explained by means of an example and a number of benefits and implementation problems will be revealed [1].

First conceptualized in 1966 as a method or concept for new product development under the umbrella of Total Quality Control, Hishinshu Tenkai (quality deployment) was developed by Dr. Shigeru Mizuno and Yoji Akao. Yoji Akao, et al detailed methods of quality deployment in 1972. The Japan Society of Quality Control formed a research group to specifically study Quality Function Deployment (QFD) in 1978. QFD is used to translate customer requirements to engineering specifications. It is a link between customers - design engineers - competitors - manufacturing. It provides an insight into the whole design and manufacturing operation from concept to manufacture and it can dramatically improve the efficiency as production problems are resolved early in the design phase.

It is very powerful as it incorporates the voice of the customer in the designs - hence it is likely that the final product will be better designed to satisfy the customer's needs. Moreover, it provides an insight into the whole design and manufacturing operation (from concept to manufacture) and it can dramatically improve the efficiency as production problems are resolved early in the design phase.

Quality Function Deployment (QFD) was conceived in Japan in the late 1960' s, and introduced to America and Europe in 1983. During the period between the late 1960's and early 1980's, the concept of QFD evolved from the belief that Total Quality Control must include not only checking of the control points during production, but an understanding of the requirements prior to the design phase. In the late 1960's, Japanese companies were breaking from their post World War II mode of imitation and copying to a more original mode of product development i, making design quality an important consideration. The need to understand the critical design issues prior to production was acknowledged and QC process charts were widely used to ensure that the design criteria were met during manufacturing, but there was no formal system to translate the customer's needs into the initial design and subsequent process control points. Thus, an opportunity was created for QFD to come to fruition as a method to check the design itself for adequacy in meeting customer requirements and to translate those requirements to production [2].

1.1 When to use QFD:

QFD is applied in the early stages of the design phase so that the customer wants are incorporated into the final product. Furthermore it can be used as a planning tool as it identifies the most important areas in which the effort should focus in relation to our technical capabilities. Ask yourself these questions:

1. Why do QFD in this case?
2. What will the QFD be made of?
3. Is it the right tool at this time?
4. Is this the right place for implementation?
5. What is the goal and what is success?
6. Who all should we involve?

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Best Practice Quality Function Deployment (QFD) ,2004 To provide an advanced product definition methodology based on quality function deployment QFD principles to identify minimize the risks of project failures due to failure to align with the voice of the business The methodology was developed by reviewing current design product definition and QFD tools and then applied to a number of industry based design projects in academia as well as an in depth case study at one industry

organization The tool has been well accepted for its ease and approach in both industry and academic environments and already used to help guide project management The **The Application of Quality Function Deployment (QFD) to**

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Eureka,Nancy E. Ryan,1988 Quality Function Deployment QFD is a powerful tool that provides a mechanism for bringing competitive products to market Used in Japan for years QFD gives managers a template for customer driven designs designs that target the high risk details often overlooked in the headlong rush to market QFD is a proven and effective tool for increasing profits and market share ICICKM 2017 14th International Conference on Intellectual Capital Knowledge

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Yoji Akao,1990-09-01 Quality Function Deployment QFD is a method for satisfying customers by translating their demands into design targets and quality assurance points For a thorough how to on the implementation of QFD we went directly to the source Yoji Akao the creator of QFD and one of the foremost leaders of the Japanese Total Quality Control movement In this unprecedented book he explains the concepts and methods of this remarkable systems engineering approach Filled with case studies detailed charts and over 100 diagrams this book is a complete reference tool for QFD implementation It includes Using the demanded quality deployment chart Using and promoting quality charts Using quality control process charts QFD

at the pre production Quality deployment and reliability deployment Quality development in the construction industry QFD for the service industry QFD for software development **Product Design** Catalin Alexandru,Codruta Jaliu,Mihai Comsit,2020-10-28 Product design is a comprehensive process related to the creation of new products and the ability to design and develop efficient products are key to success in today s dynamic global market Written by experts in the field this book provides a comprehensive overview of the product design process and its applications in various fields particularly engineering Over seven chapters the authors explore such topics as development of new product design methodologies implementation of effective methods for integrated products development of more visualized environments for task based conceptual design methods and development of engineering design tools based on 3D photogrammetry among others

SHORT COURSE ON QUALITY FUNCTION DEPLOYMENT FOR THE U.S. SHIPBUILDING INDUSTRY ,1993 **Why Quality is Important and How It Applies in Diverse Business and Social Environments, Volume I** Paul Hayes,2020-12-24 These two volumes are about understanding why and application how with the aim of providing guidance and introduction to both Quality is the consistent achievement of the user s expectations of a product or service The achievement needs to be The right thing right first time every time in time Beginning with manufacturing and services it also includes professional personal and spiritual dimensions Variation does not sit happily with consistency and skill in handling risk and opportunity requires competence in the use of statistics probability and uncertainty and needs to complement the critically essential soft dimensions of quality and the overarching and underpinning primacy of personal relationships There are no clear boundaries to the applicability of quality and the related processes and procedures expressed in management systems and this is why it matters so much to show how it applies in diverse business and social environments Increasingly the acceptability of boundaries that are drawn depends on their effect on the user and the achievement of quality and the latest standards on quality management are explicit on this key point Quality is everyone s business and there is no single professional discipline that can properly express this Insights knowledge experience best practice tools and techniques need to be shared across all kinds of organizational and professional boundaries and there is no departmental boundary that can stand apart from the organization wide commitment to quality achievement **Quality Function Deployment and Six Sigma, Second Edition** Joseph P. Ficalora,2009-07-15 Make the Most of QFD and the Voice of the Customer in Six Sigma Environments Quality Function Deployment QFD techniques have helped thousands of organizations deliver higher quality more user focused product designs Now Lou Cohen s classic guide to QFD has been thoroughly updated to fully align QFD with Design for Six Sigma DFSS and other state of the art Six Sigma methodologies Revised by world class Six Sigma expert Joe Ficalora and his team at Sigma Breakthrough Technologies this new edition s up to date perspective on QFD reflects dozens of successful Six Sigma and DFSS deployments They offer a start to finish methodology for implementing QFD and systematically illuminate powerful linkages between QFD and Six Sigma DFSS Marketing for Six Sigma MFSS and

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