

A CASE STUDY ANALYSIS THROUGH THE IMPLEMENTATION OF VALUE ENGINEERING

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Abstract — This paper presents the basic fundamental of Value Engineering and its different phases that can be implemented in any product to optimize its value. A case study is discussed of a bath fitting product in which the material of the product is changed according to the value engineering methodology. The material is chosen such that the cost is reduced without affecting the value of the product and its design. To find the best possible alternative from the choices we have incorporated a tool named as Decision Matrix. Decision Matrix gives the most appropriate result and is even easy to use. Hence the cost is reduced as a result of the analysis.

Keywords — *Value Engineering (VE), Various phases of VE, Analysis Worksheet, Decision Matrix*

I. INTRODUCTION

Value Engineering (VE), which is originated from the US military industry in the early 60 of this century, has been extensively applied in construction industry nowadays. Foo, T.H.(2002) and Chong, S.N.(2002) has given some useful frameworks on the application of VE.^[1] However, in India, VE is mostly associated to any alternative design with the intention of cost cutting exercise for a project, which is merely one of the initial intentions of the VE. This paper outlines the basic frameworks of Value Engineering and presents a case study showing the merits of VE in a Bath Fittings Manufacturing Industry.

II. DEFINITION OF VALUE ENGINEERING

Value Engineering is the systematic application of recognized techniques by multi-disciplined team(s) that identifies the function of a product or service; establishes a worth for that function; generates alternatives through the use of creative thinking; and provides the needed functions, reliably, at the lowest overall cost.

Value Engineering may be defined in other ways, as long as the definition contains the following three basic precepts:

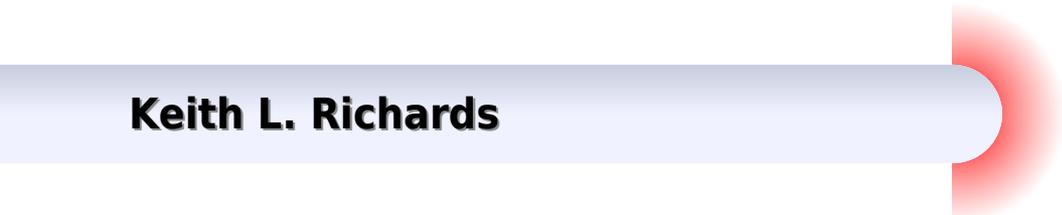
1. An organized review to improve value by using multi-disciplined teams of specialists knowing various aspects of the problem being studied.
2. A function oriented approach to identify the essential functions of the system, product, or service being studied, and the cost associated with those functions.
3. Creative thinking using recognized techniques to explore alternative ways of performing the functions at a lower cost, or to otherwise improve the design.

III. WHAT VALUE ENGINEERING ISN'T

Value Engineering is not just "good engineering." It is not a suggestion program and it is not routine project or plan review. It is not typical cost reduction in that it doesn't "cheapen" the product or service, nor does it "cut corners." Value Engineering simply answers the question "what else will accomplish the purpose of the product, service, or process we are studying?" It stands to reason that any technique so useful should be applied to every product, and at each stage of the normal day-to-day development of a highway product. This is not the case. The practice of VE entails a certain amount of expense, that must be justified by potential cost savings. Accordingly there must be a recognized need for change and a distinct opportunity for financial benefit to warrant the added cost of a VE effort.

Engineering Case Study Examples

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Case Studies in Mechanical Engineering Stuart Sabol, 2016-05-17 Using a case study approach this reference tests the reader's ability to apply engineering fundamentals to real world examples and receive constructive feedback. Case Studies in Mechanical Engineering provides real life examples of the application of engineering fundamentals. They relate to real equipment, real people, and real decisions. They influence careers, projects, companies, and governments. The cases serve as supplements to fundamental courses in thermodynamics, fluid mechanics, heat transfer, instrumentation, economics, and statistics. The author explains equipment and concepts to solve the problems and suggests relevant assignments to augment the cases. Graduate engineers seeking to refresh their career or acquire continuing education will find the studies challenging and rewarding. Each case is designed to be accomplished in one week earning up to 15 hours of continuing education credit. Each case study provides methods to present an argument, work with clients, recommend action, and develop new business. Key features: Highlights the economic consequences of engineering designs and decisions. Encourages problem solving skills. Application of fundamentals to life experiences. Ability to practice with real life examples. Case Studies in Mechanical Engineering is a valuable reference for mechanical engineering practitioners working in thermodynamics, fluid mechanics, heat transfer, and related areas.

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Richards, 2013-11-15 The Engineering Council UK have reported an encouraging increase in the applications for Engineering Technician Eng Tech registration both from applicants following a work based learning program and individuals without formal qualifications but who have verifiable competence through substantial working experiences and self study. Design Engineer's Case Studies and Examples has been written for these young engineers. The contents have been selected on typical subjects that developing engineers may be expected to cover in their professional career and gives solutions to typical problems that may arise in mechanical design. The subjects covered include the following: Introduction to stress calculations, Basic shaft design, Beams under bending, Keys and spline strength calculations, Columns and struts, Gears, Material selection, Conversions and general tables.

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