Value Engineering Project

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Project Management, Planning and Control RSMeans
A hands-on guide for creating a winning engineering project Engineering Project Management is a practical, step-by-step guide to project management for engineers. The author – a successful, long-time practicing engineering project manager – describes the techniques and strategies for creating a successful engineering project. The book introduces engineering projects and their management, and then proceeds stage-by-stage through the engineering life-cycle project, from requirements, implementation, to phase-out. The book offers information for understanding the needs of the end user of a product and other stakeholders associated with a project, and is full of techniques based on real, hands-on management of engineering projects. The book starts by explaining how we perform the actual engineering on projects; the techniques for project management contained in the rest of the book use those engineering methods to create superior management techniques. Every topic – from developing a work-breakdown structure and an effective project plan, to creating credible predictions for schedules and costs, through monitoring the progress of your engineering project – is infused with actual engineering techniques, thereby vastly increasing the effectivity and credibility of those management techniques. The book also teaches you how to draw the right conclusions from numeric data and calculations, avoiding the mistakes that often cause managers to make incorrect decisions. The book also provides valuable insight about what the author calls the social aspects of engineering project management: aligning and motivating people, interacting successfully with your stakeholders, and many other important people-oriented topics. The book ends with a section on ethics in engineering. This important book: Offers a hands-on guide for developing and implementing a project management plan Includes background information, strategies, and techniques on project management designed for engineers Takes an easy-to-understand, step-by-step approach to project management Contains ideas for launching a project, managing large amount of software, and tips for ending a project Structured to support both undergraduate and graduate courses in engineering project management, Engineering Project Management is an essential guide for managing a successful project from the idea phase to the completion of the project.
Value Engineering Workbook for Construction Grant Projects Van Nostrand Reinhold Company
A comprehensive book on project management, covering all principles and methods with fully worked examples, this book includes both hard and soft skills for the engineering, manufacturing and construction industries. Ideal for engineering project managers considering obtaining a Project Management Professional (PMP) qualification, this book covers in theory and practice, the complete body of knowledge for both the Project Management Institute (PMI) and the Association of Project Management (APM). Fully aligned with the latest 2005 updates to the exam syllabi, complete with online sample Q&A, and updated to include the latest revision of BS 6079 (British Standards Institute Guide to Project Management in the Construction Industry), this book is a complete and valuable reference for anyone serious about project management. â € ¢ The complete body of knowledge for project management professionals in the engineering, manufacturing and construction sectors â € ¢ Covers all hard and soft topics in both theory and practice for the newly revised PMP and APMP qualification exams, along with the latest revision of BS 6079 standard on project management in the construction industry â € ¢ Written by a qualified PMP exam accreditor and accompanied by online Q&A resources for self-testing
Recommendations from Value Engineering Studies on Wastewater Treatment Works CRC Press
Value Management is a philosophy, set of principles and a structured management methodology for improving organisational decision-making and value-for-money. The second edition builds on the success of the first edition by extending the integrated value philosophy, methodology and tool kit to describe the application of Value Management to the areas of service delivery, asset management, and, Programmes, in addition to Projects, products and processes. Value Management is a well-established methodology in the international construction industry, and in the UK has been endorsed as good practice in a range of government sponsored reports. In this book the authors have addressed the practical opportunities and difficulties of Value Management by synthesising the background, international developments, benchmarking and their own extensive consultancy and action research experience in Value Management to provide a comprehensive package of theory and practice. The second edition retains the structure of the first edition, covering methods and practices, frameworks of value and the future of value management. It has been thoroughly updated, and a number of new chapters added to encapsulate further extensions to current theory and practice. In particular, the new edition responds to: A range of recent UK industry and government publications; and most notably BS EN 16271:2012 - Value management: Functional expression of the need and functional performance specification; the imminent update of BS EN 12973:2000 Value Management; BS EN 1325 Value Management – Vocabulary, Terms and definitions; the changes to "Value for Europe" governing the training and certification of Value Management in European Union countries; the UK Government ' s Management of Value (MoV) initiative, together with other leading reports, international guidance and standards on Value Management. Research in Value Management undertaken since publication of the first edition. Changes in Value Management practice particularly in Programmes and Projects. Developments in the theory of value, principally value for money measures, whole life value option appraisal, and benefits realisation. Initiatives in asset management initiatives covering the management of physical infrastructure, for example the recent launch of a suite of three standards under the generic title of BS ISO 55000: 2014 Asset Management, and its predecessor BSI PAS55 2008 " Asset Management: Specification For The Optimized Management Of Physical Assets " The second edition contains a dedicated chapter of exemplar case studies drawn from the authors ' experience, selected to demonstrate the new areas of theory and practice. An Appendix includes an extensive set of tools and techniques of use in Value Management practice. Construction clients, including those in both the public and private sectors, and professionals such as construction cost consultants, quantity surveyors, architects, asset managers, construction engineers, and construction managers will all find Value Management of Construction Projects to be essential reading. It will also be of interest to researchers and students on construction related courses in Higher Education – particularly those at final year undergraduate and at Masters level.
Adaptation of Quality Function Deployment to Engineering and Construction Project Development CRC Press
Written by the design and construction industry's most celebrated Value Engineering Practitioner, here is a a complete system for understanding and conducting Value Engineering and Life Cycle Costing Studies--for design, construction, and facilities operation. Along with step-by-step instructional chapters, readers get seven case studies on major facility types, with currently applicable data and examples.
Value Engineering Guidance Handbook LAP Lambert Academic Publishing
Value Engineering has proven to be an effective methodology for improving the value of large infrastructure projects, among others, through the optimization of life cycle costs. It is, however, a resource and time demanding methodology that requires careful implementation strategies. Finding the best timing for Value Engineering studies in your project life cycle will help you attain the necessary function reliability at the lowest overall cost.
How to Manage a Great Project John Wiley & Sons
Offers coverage of each important step in engineering cost control process, from project justification to life-cycle costs. The book describes cost control systems and shows how to apply the principles of value engineering. It explains estimating methodology and the estimation of engineering, engineering equipment, and construction and labour costs
Value Engineering Program SAGE Publications India
Value engineering (VE) is a function-oriented technique that has proved to be an effective management tool for achieving improved design, construction, and cost-effectiveness in various transportation program elements. This document provides guidelines for establishing and administering VE programs. The purpose of the guidelines is to promote acceptance and use of VE, and assure compliance with federal VE requirements, and allow maximum flexibility to each state. The document provides information on: background of VE; general elements of state VE programs; design of VE guidelines; construction of VE guidelines; database systems; and lists of resources for publications and organizations.
Reducing Process Costs with Lean, Six Sigma, and Value Engineering Techniques Value Engineering
Project development refers to 5 phases of activity which lead up to the start of construction: the owner's business requirements phase, the feasibility study phase, the conceptual development phase, the preliminary design phase, and the final design phase. Specific examples are provided to illustrate the process. Provides an "application framework," information on how to identify Quality Function Deployment (QFD) projects, charter and train project teams to use it, and how the team can then go about using the technique. Appendices: phase I key learnings, discreet QFD applications.
Principles and Applications of Value Engineering Butterworth-Heinemann
Cost and Value Management in Projects provides practicing managers with a thorough understanding of the various dimensions of cost and value in projects, along with the factors that impact them, and the managerial approaches that would be most effective for achieving cost efficiency and value optimization. This book addresses cost from a strategic perspective, offering thorough coverage of the various elements of value management such as value planning, value engineering and value analysis from the perspective of projects.
Value Management of Construction Projects Notion Press
Value Engineering (VE) is a practice whose goal is, always, to achieve value for money. VE found its first applications in U.S. manufacturing at the end of World War II. Its introduction to construction in the early 1960s was fueled by the U.S. military and expanded throughout the U.S. government. Subsequently, its use has spread globally. The book goes beyond merely describing the theory of VE in order to explain how the methodology can be productively used in practice . it is hoped that the practice advice contained in its chapter will assist engineers, who are involved with establishing VE activities within their organization, it also aimed at assisting all those who may become involved with VE to participate more productivity by giving them greater appreciation of the basics of VE, and how it relates to other construction activities. Selecting the project at the appropriate stage of development (the timing of the study) is very important to the success of the VE study. Value can be added by performing a VE study at any time during project development.
VALUE ENGINEERING AS STRATEGIC TOOL IN AUTOMOBILE ENGINEERING John Wiley & Sons
This jargon-free book demystifies all the concepts required for a well rounded understanding of the theory of Value Engineering (VE) and Value Engineering Certification Programmes. Value Engineering Mastermind: From Concept to Value Engineering Certification helps the readers to: " Understand VE concepts. " Practise VE concepts and acquire the Society of American Value Engineers (SAVE) International Certifications-accorded in India by the Indian Value Engineering Society (INVEST). A special feature of this book is a set of questions at the end of every chapter to test the knowledge acquired, with answers at the end of the book. Since the book provides insights into the development of managerial traits through VE, it will be an important resource for companies that have begun to provide VE training to their employees, besides students of engineering and MBA courses. It will also be of much use to professional societies like the Indian Value Engineering Society, the Society of Indian Value Management, SAVE International, etc.
The Systematic Approach for Value Engineering Act John Wiley & Sons
A company with effective cost reduction activities in place will be better positioned to adapt to shifting economic conditions. In fact, it can make the difference between organizations that thrive and those that simply survive during times of economic uncertainty. Reducing Process Costs with Lean, Six Sigma, and Value Engineering Techniques covers
Value and Risk Management Miles Value Foundation
TRB's National Cooperative Highway Research Program (NCHRP) Synthesis 352: Value Engineering Applications in Transportation examines the current value engineering (VE) practices of highway transportation agencies in the

United States and Canada. Value engineering (VE) is the systematic review of a project, product, or process to improve performance, quality, and/or life-cycle cost by an independent multidisciplinary team of specialists. The report identifies the reported best practices, key strengths, and challenges of current VE study processes and agency programs, and offers guidance on applying and improving the effectiveness of VE in projects and programs.

Value Engineering Pearson UK

INTRODUCTION 1.1.1 Value Engineering is an organized attempt to analyze the functions of a product, system, or process in order to achieve these functions at the lowest possible cost. VE requires a change of attitudinal complexes in the whole organization. A definite mindset change is necessary before a value engineering project can be started. The entire organization must be involved and labor together to achieve the desired objectives. The basic tenets of VE include cost-reduction and maintenance or improvement in the necessary function of each and every part/component used in the manufacture of the total product.

Effect of Value Engineering Changes on Reliability of Equipment in Service Thomas Telford

Value management incentive programmes and clauses are a powerful mechanism for allowing continuity of contractors' input throughout a project delivery. The fact that incentive programmes have been overlooked in the reports and publications portraying alliancing and partnering as the way forward, means that this effective tool has been largely lost to the UK construction industry. The book considers value incentive programmes in depth, highlighting their application and benefits to client and contractor. It provides an insight into contractor-led value engineering and its effective use in different procurement forms.

Value Engineering Transportation Research Board

Primarily for the three parties named in the subtitle, this manual offers information and recommendations on principles and procedures that have been shown effective in enhancing the quality of construction projects the projects themselves not the finished product. Among other aspects, it discusses

Value Engineering in the Construction Industry CRC Press

Offers coverage of each important step in engineering cost control process, from project justification to life-cycle costs. The book describes cost control systems and shows how to apply the principles of value engineering. It explains estimating methodology and the estimation of engineering, engineering equipment, and construction and labour costs

Guidelines for Value Engineering Infotech Publishers

After more than 50 years as a manager and VE pioneer, Richard J. Park presents Value Engineering: A Plan for Invention. Park demonstrates how to adopt VE as a thinking process that can enable you to increase your problem solving skills, cultivate innovation, reduce costs, improve productivity, and more. Features

Concepts of Value Engineering DIANE Publishing

This book is an introductory value engineering course in easy explanation for all students and professionals. The scope, sequence and depth of the concepts are designed to match the typical value engineering and value analysis course syllabus. It includes interesting features that help understand connections between scientific concepts and the everyday world. The book conveys the major themes of VE such as value analysis, value methodology, value management and FAST analysis, and features vast examples and case studies to understand better. The main focus of this book is to integrate the basic concepts of value engineering and their application in today’s world. It also presents some of the case studies and FAST models of the products of the modern world which are being used in the present times. The book is composed of 5 modules, each focusing on a specific topic: 1. Value analysis 2. Value engineering 3. Functional analysis 4. FAST modeling 5. Applications of VE/VA Aspiring and active practitioners will benefit from the case studies of FAST diagrams, which is one of the main substances of the book. Students will gain useful insights into the concepts, processes and steps by referring to this book, thus completing the academic foundation for value engineering.

Reducing Process Costs with Lean, Six Sigma, and Value Engineering Techniques LAP Lambert Academic Publishing

A company with effective cost reduction activities in place will be better positioned to adapt to shifting economic conditions. In fact, it can make the difference between organizations that thrive and those that simply survive during times of economic uncertainty. Reducing Process Costs with Lean, Six Sigma, and Value Engineering Techniques covers