

Checklist for Cast Iron to PVC VE Discussion

Item: Maximum Working Temperature (at zero psi)	YES	NO
Will system exceed 140° F by design or accident? (Boiler condensate, comm. kitchen, washing machine, AutoCools?)		
Fact: PVC maximum working temperature is 140° F.		
Fact: CESP maximum working temperature is 212° F.		
Item: Thermal Expansion	YES	NO
What is the air temperature at the time of installation?		
What is the maximum temperature of the system?		
What is the potential maximum change in temperature?		
Does contractor have expansion couplings and/or off-sets figured into bid?		
Access to expansion couplings for possible replacement/maintenance?		
Fact: PVC will expand 3-6" per 100' of pipe with a 100° F temperature change.		
Fact: CESP will expand .745" per 100' of pipe with a 100° F temperature change.		
Item: Sound Attenuation	YES	NO
Will anyone be sleeping, conversing, studying or working in the facility (i.e., Hotels, Dormitories, Hospitals, Schools, Libraries, Retirement, Convalescing Facilities, Shared Wall Condos & Apartments, Correctional Facilities, Quiet Work Areas, etc.)?		
Fact: PVC requires added insulation wrap & isolation brackets for quiet performance required in many buildings.		
Fact: Cast Iron requires no insulation wrap because of its natural noise-dampening qualities with consistent sound performance levels in the 25 dB range (utilizing neoprene gaskets).		
Item: Underground Installation	YES	NO
Will contractor be installing PVC with ASTM D 2321 protocol?		
Will contractor be supervised during installation of underground PVC to assure required trench width, trench bottom and proper soil compaction?		
Does contractor have proper backfill material figured into his bid?		
Will the DWV system be installed under concrete? Are the consequences of an under-slab failure significant?		
Fact: As a flexible piping system PVC requires greater care in underground application. It is dependent upon the surrounding soil (soil pipe mechanics) in order to withstand an external load. PVC pipe is considered to be in a failed condition when earth or live loads have caused the pipe to deflect beyond a certain point, generally 5%. Calculating maximum burial depths for flexible piping systems is more complex and requires the use of the Iowa Formula, pipe stiffness values for the system employed and knowledge of local soil conditions. Additional information of the Iowa Formula is available within the Uni-Bell Handbook of PVC Pipe.		
Fact: As a rigid material CESP fails when it crushes. Rigid piping systems can be evaluated with a ring crush test, and the derived values can be used to verify that the pipe will withstand the required external load.		
Item: Hanger Spacing/Fall	YES	NO
Has the cost of additional hangers and their installation been considered?		
Fact: Model Plumbing Codes require PVC DWV pipe to be supported horizontally every 4 feet.		
Fact: CESP offers greater structural strength, significantly reducing hanger requirements and providing consistent fall. Cast iron needs to be supported within 18" of each joint and every 10 feet horizontally.		
Item: Plenum Spaces	YES	NO
Does the building utilize plenum spaces for return air?		
If wrapping PVC to meet ASTM E 84 is permitted by code, will a post cable/telecoms/HVAC installation inspection occur to make sure pipe/wrapping is not damaged or disturbed?		
Fact: PVC should not be installed in a plenum. It is classified as a combustible material per ASTM E 136.		
Fact: Cast iron is a non-combustible product, which can be installed in a return air plenum.		
Item: Fire Wall Penetrations	YES	NO
Has contractor added the cost of fire-stopping materials and labor or will that be passed along to another trade?		
Fact: PVC requires listed fire-stop devices or collars conforming to the requirements of ASTM E 814 on both sides of the fire-rated wall. The collars utilize intumescent fire-stopping materials.		
Fact: Cast iron requires installers to only seal the annular space between the wall and the pipe. Typically mineral wool batting and fire-resistant caulking are used to fill the annular space.		

If you answered yes to any one of these questions, please consult a Charlotte Pipe technical services rep to further discuss the best material for your project. You may download this checklist at www.charlottepipe.com/vechecklist.

Value Engineering Checklist

Richard E. Westney



Value Engineering Checklist

Value Engineering Handbook United States. Department of the Army,1974 *Value Engineering Guide for DoD Contractors* United States. Defense Supply Agency,1976 [Value Engineering](#) United States. Army Management Engineering Training Agency,United States. Department of Defense,1968 **Project Management for Successful Product Innovation** Alan Webb,2017-07-05 This comprehensive book provides a complete guide to managing projects involving the development of new products It aims to give the practising project manager an insight into the many processes that are involved in handling one of the most complex of industrial activities The book is arranged in a logical sequence covering the development of project management project management structures aspects of planning monitoring and control economics and value management design management intellectual property issues and production start up Particular emphasis has been given to risk management which is recognized as both a difficult subject and also one of growing importance to today s project manager especially in product innovation A complete explanation is given of the latest and most relevant techniques together with guidance as to where and how they should be applied Where software tools are available these are named and in some cases brief descriptions are included in all cases contact details of the vendors are provided [Principles and Applications of Value Engineering](#) United States. Army. Management Engineering Training Activity,1983 [Value Engineering](#) Alphonse Dell'Isola,1997-09-30 Whether you are interested in enhancing your own applications of VE and LCC or you need to understand the current methodology in order to hire a practitioner and oversee the process this unique publication will provide the information you are seeking The book shows you How to organize and apply VE and life cycle costing for maximum benefit Real life VE demonstration projects professionally organized reports with recommendations you can apply right now Project workbook with forms to conduct a complete VE study **Value Engineering** Surender Kumar,R. K. Singh,S. K. Jha,2004-11 The first decade of 21st century witnessed several changes world wide in technology management restructuring and down sizing global trade and competition international quality standards information exchange lean manufacturing and virtual enterprises etc In this age of globalization the survival of any industry mainly depends on its cost of production and quality of its products With the rapid growth of competition and shrinking product life cycle value engineering has become an essential tool for attaining a competitive edge This volume provides a logistic view of value engineering The chapters written by experts in their respective fields are organized into different sections covering Basic concepts of value engineering Information Technology and Value Engineering Systems Situational Case Studies Industrial Examples Role of value engineering in profit improvement and effectiveness *Value Engineering* Richard Park,2017-11-01 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 **The Engineer's Cost Handbook** Richard E. Westney,1997-02-26 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 Target Costing and Value Engineering Robin Cooper,2017-10-19 What would happen if everyone in your company followed a disciplined approach to cost reduction Go ahead imagine it What would it look like How can it be done The answer smart cost management Effective cost management must start at the design stage As much as 90 95% of a product s costs are added in the design process That is why effective cost management programs focus on design and manufacturing The primary cost management method to control cost during design is a combination of target costing and value engineering Target Costing Objectives Identify the cost at which your product must be manufactured at if it is to earn its profit margin at its expected target selling price Break the target cost down to its component level and have your suppliers find ways to deliver the components they sell you at the set target prices while still making adequate returns Value Engineering The connection to function An organized effort and team based approach to analyze the functions of goods and services that the design stage and find ways to achieve those functions in a manner that allows the firm to meet its target costs The result Added value for your company development costs on line with added value for your company development costs on line with selling prices and added value for your customer higher quality products that meet possibly even exceed customer expectations **Project Management Handbook of Checklists** Mark J. Hiltz,1994 *Value Engineering* Richard Park,2017-11-01 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 **The Project Manager's Checklist for Building Projects** Mark Urizar,2013-07-24 As today s building projects are becoming increasingly more complex having an ever increasing number of requirements it has become essential to comprehensively plan building projects upfront and determine how these can be effectively progressed and efficiently delivered To do so project managers must not only know and understand the different lifecycle phases and many processes involved but must also be able to determine what the most appropriate delivery strategy for their particular project is Establishing a project roadmap and having a comprehensive checklist of what to do has therefore become essential as these not only provide quick access to the necessary prompters that should be considered but also enables the most appropriate decisions to be made This book sets how building projects can be effectively delivered it sets out the essential project management delivery processes through a roadmap of checklists that covers both the project and design management processes and lists their many associated activities applicable to any building project These not only provide a valuable insight as to how building projects should be

progressed and managed but also outlines what should be considered and actioned at any particular point on the project delivery path to ensure the successful delivery of viable built outcomes

Physical Asset Management Nicholas Anthony John Hastings, 2021-01-12 This book presents a systematic approach to the management of physical assets from concept to disposal building upon the previous editions and brought up to date with the new international standards ISO55002 and ISO TS50010 It introduces the general principles of physical asset management and covers all stages of the asset management process including initial business appraisal identification of physical asset needs capability gap analysis financial evaluation logistic support analysis life cycle costing strategic asset management planning maintenance strategy outsourcing cost benefit analysis disposal and renewal Features include providing a textbook for asset management courses to university level relating closely to the ISO55000 international asset management standard series providing a basis for the establishment of physical asset management as a professional discipline and presenting case studies analytical techniques and numerical examples with solutions Written for practitioners and students in asset management this book provides an essential foundation to the topic It is suitable for an advanced undergraduate or postgraduate course in asset management and also offers an ideal reference text for engineers and managers specializing in asset management reliability maintenance logistics or systems engineering

The Code of Federal Regulations of the United States of America, 1984 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government

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Requirements Engineering for Software and Systems Phillip A. Laplante, Mohamad Kassab, 2022-06-07 Solid requirements engineering has increasingly been recognized as the key to improved on time and on budget delivery of software and systems projects New software tools are emerging that are empowering practicing engineers to improve their requirements engineering habits However these tools are not usually easy to use without significant training Requirements Engineering for Software and Systems Fourth Edition is intended to provide a comprehensive treatment of the theoretical and practical aspects of discovering analyzing modeling validating testing and writing requirements for systems of all kinds with an intentional focus on software intensive systems It brings into play a variety of formal methods social models and modern requirements writing techniques to be useful to practicing engineers The book is intended for professional software engineers systems engineers and senior and graduate students of software or systems engineering Since the first edition there have been made many changes and improvements to this textbook Feedback from instructors students and corporate users was used to correct expand and improve the materials The fourth edition features two newly added chapters On Non Functional Requirements and Requirements Engineering Road Map to the Future The latter provides a discussion on the relationship between requirements engineering and such emerging and disruptive technologies as Internet of Things Cloud Computing Blockchain Artificial Intelligence and Affective Computing All chapters of the book were significantly expanded with new materials that

keep the book relevant to current industrial practices Readers will find expanded discussions on new elicitation techniques agile approaches e g Kanpan SAFe and DEVOps requirements tools requirements representation risk management approaches and functional size measurement methods The fourth edition also has significant additions of vignettes exercises and references Another new feature is scannable QR codes linked to sites containing updates tools videos and discussion forums to keep readers current with the dynamic field of requirements engineering *Design to Cost* Jack V. Michaels, William P. Wood, 1991-01-16 How to accurately estimate in advance the cost of producing products or services by means of the design to cost method which systematically constrains design goals according to available funds This book shows how to use value engineering cost estimating and cost control to devise and adhere to realistic cost goals Touches on techniques from management methods to specific engineering approaches and provides actual case studies of projects and services that have now become affordable through the application of the design to cost method **Cost Reduction Journal**, 1967 *Advisory Circular Checklist (and Status of Other FAA Publications)*. United States. Federal Aviation Administration, 1993

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