

CERTIFIED RELIABILITY ENGINEER (CRE) BODY OF KNOWLEDGE

The topics in this Body of Knowledge include additional detail in the form of subject explanations and the cognitive level at which the candidate will be within. This information will provide useful guidance for both the Candidate Development Committee and the candidates preparing to take the exam. The subject is not intended to limit the subject matter or the structure of what might be covered in an exam. It is intended to clarify the type of content to be expected in the exam. The descriptor in parentheses at the end of each entry refers to the highest cognitive level at which the topic will be tested. A more comprehensive description of cognitive levels is provided at the end of this document.

I. RELIABILITY MANAGEMENT (18 Questions)

A. Strategic management

- Benefits of reliability engineering**
Describe how reliability engineering techniques and methods improve programs, processes, products, systems, and services. (Substantial)
- Interrelationship of safety, quality, and reliability**
Define and describe the relationships among safety, reliability, and quality. (Substantial)
- Role of the reliability function in the organization**
Describe how reliability engineering can be applied in other functional areas of the organization, such as marketing, engineering, customer product support, safety and product liability, etc. (Apply)
- Reliability in product and process management**
Describe reliability engineering relationships with other development activities, concurrent engineering, concurrent improvement initiatives such as lean and six sigma, methodologies, and emerging technologies. (Apply)
- Future consequence and liability management**
Describe the importance of these concepts in determining reliability engineering plans. (Substantial)
- Warranty management**
Define and describe warranty terms and conditions, including warranty period, conditions of use, failure criteria, etc., and identify the uses and benefits of warranty data. (Substantial)
- Customer needs assessment**
Describe methods (such as, e.g., quality function deployment (QFD), prototyping, beta testing) to determine customer needs to resolve or reliability requirements for products and services. (Apply)
- Supplier reliability**
Define and describe supplier reliability assessments that can be monitored to support or improve overall reliability programs. (Substantial)

II. Reliability program management

- Terminology**
Define basic reliability terms (e.g., MTTF, MTBF, MTTR, availability, failure rate, reliability, maintainability). (Substantial)
- Elements of a reliability program**
Define how planning, testing, training, and using customer needs and requirements are used to develop a reliability program, and identify various drivers of reliability.

Certified Reliability Engineer Primer

IM Harris



Certified Reliability Engineer Primer:

The ASQ Supply Chain Management Primer James P. Russell,2013-11-27 This primer was written to promote the application of basic and sound supply chain management principles It was written for a global audience of practitioners and their managers Authors and reviewers were chosen from around the world to capture these accepted methods used in national and international commerce Most of the described methods come from decades of use in quality management programs They are equally important when managing for environment safety security and sustainability They are basic The global economy has presented both a challenge and an opportunity for organizations to better manage their supply chains An organization s supply chain has come to be viewed as more like a supply web because an organization has a complex network of customers distributors wholesalers suppliers first tier second tier and sometimes third tier and includes logistics transportation and warehousing This primer draws content from experts in the field and was blended into a useful tool for you to use managing your organization s supply chain It covers key supply chain topics like supply chain and logistics management processes defining organizational needs and requirements identifying supply network sources building relationships awarding contracts and managing supplier performance Creating an effective supply chain is key to staying ahead in today s complex global economy This primer provides the tools guidance and examples to help maximize business performance and create competitive advantage for your organization

Glossary of Reliability and Maintenance Terms Ted McKenna,Ray Oliverson,1997-09-11 This glossary with more than 1 000 terms and definitions provides a common ground for effective communication It is an essential reference for all reliability professionals process engineers plant operators and repair and maintenance personnel When unclear communication occurs in the process industry the problems that result can be expensive costly downtime and equipment failure Here s where the Glossary of Reliability and Maintenance Terms can eliminate much of this frustration and cost Now you your staff vendors contract employees and consultants can quickly refer to this glossary s more than 1 000 terms and definitions This helpful dictionary provides a common ground for effective communication It is an essential reference for all reliability professionals process engineers plant operators and repair and maintenance personnel

Applicability of Reliability-Centered Maintenance in the Water Industry Christopher Fynn,Marius Basson,Steve Sinkoff,Alastair Moubray,Rick Nadeau,2007-02 This research report assessed how water utilities could apply Reliability Centered Maintenance RCM to new and existing infrastructure and evaluated the costs and benefits of such programs RCM components were identified as well as how utility maintenance programs are currently developed and how such a program would be implemented RCM pilot projects were completed with the Denver Water Board and Veolia Water Indianapolis Costs and benefits are presented along with implementation procedures and Change Management recommendations Includes CD

The ASQ Certified Reliability Engineer Handbook Karen Hulting,Mary McShane-Vaughn,2025-11-12 This updated handbook is ideal for working professionals who specialize in improving the

reliability maintainability and safety of products systems and processes Organized according to the 2025 ASQ Certified Reliability Engineer CRE Body of Knowledge BoK the fourth edition of The ASQ Certified Reliability Engineer Handbook has been expanded to include new information tools and techniques Inside you ll find a comprehensive view of the role of a reliability engineer with a focus on the basics as well as the latest technology and applications used today Revised sections are also designed to expand the knowledge base of current CREs candidates preparing for the ASQ CRE certification exam and engineering students

The Reliability Engineer Primer Robert A. Dovich, Quality Council of Indiana, 1998

The Reliability Engineer Primer Bryan Dodson, Quality Council of Indiana, 2009

An SPC Primer Thomas Pyzdek, 1984

In Gino Sky sAppaloosa Rising you will witness an authentic Western writer creating a series of erotic and improbable tall tales that read like Idaho saloon talk If you want to absorb a vision of the west that satisfies your deepest fantasies but doesn t offend your modern sensibilities visit the gang at the Cowboy Buddha Hotel

Design of Electromechanical and Combination Products Ali Jamnia, 2023-08-31 The second edition of this work now with the expanded title of Design of Electromechanical and Combination Products covers the design and development of electromechanical products updated throughout to focus not only on an Agile Systems approach but also its application to disposables and consumables Providing a practical set of guidelines and thorough examination of best practices this book focuses on cutting edge research on sustainability of electromechanical and combination products

Key Features Presents the design development and life cycle management of electromechanical and combination products Provides a practical set of guidelines and best practices for world class design Explains the role of costing and pricing in product design Covers Design for X and its role in product life cycle management Examines the dynamics of cross functional design and product development teams Develops DHF and DMR as tools and inherent components of configuration management Includes numerous real world examples of electromechanical and combination product designs This book is intended for scientists engineers designers and technical managers and provides a gateway to developing a product s design history file DHF and device master record DMR These tools enable the design team to communicate a product s design manufacturability and service procedures with various cross functional teams

CRE Certification American Society for Quality Control, 1991

Certified Reliability Engineer (CRE) : Refresher Course , 1993

What Every Engineer Should Know about Quality Control Pyzdek, 1988-10-28

Considerations of Quality play a prominent role in all fields particularly with recently focused attention on issues of consumerism product and professional liability and government regulation American industries must improve quality if they are to remain competitive in world markets

The Certified Reliability Engineer Handbook Mark Allen Durivage, 2017-07-07

This handbook is fully updated to the 2018 Body of Knowledge for the Certified Reliability Engineer CRE including the new sections on leadership performance monitoring root cause analysis and quality triangles Its purpose is to assist individuals preparing for the examination and to provide a reference for the practitioner Several typical examples are provided

throughout based on the collective experience and knowledge of the authors and editor The chapters and sections are numbered by the same format used in the Body of Knowledge BoK for the CRE examination It also includes a comprehensive glossary of reliability related terms and appendices with among other things various useful distribution tables The Certified Reliability Engineer Handbook Mark Allen Durivage,2017 School ,1912 *Consulting-specifying Engineer* ,2008 *The Certified Reliability Engineer Handbook* Donald W. Benbow,Hugh W. Broome,2013 Reliability Culture Adam P. Bahret,2021-02-02 By outlining how reliability engineering practices fit within a product development program the reader will have a better understanding of how roles and goals align with the program and how this applies to their specific role Reliability Culture How Leaders Build Organizations that Create Reliable Products will help readers develop a deep understanding of reliability including what it really means for organizations how to implement it in daily operations and most importantly how to build a culture that is centered around reliability and can generate impressive profits When senior leaders work toward reliability product details often get lost in translation This book will enable organizations to overcome this problem by showing leaders how their actions truly affect product development They will be introduced to new methods that will immediately enable them to have carefully crafted product specifications translated into matching highly reliable products This book will also be a breath of fresh air for reliability engineers and managers they will see their daily struggle identified and will learn new methods for advancing their passionate struggle These new methods will be clearly explained so readers can begin the important process of incorporating and promoting reliability in their organizations Benefits of this book include For the organizational leader this book provides tools for aligning reliability objectives and methods with the companys business and brand goals For the reliability engineer this book identifies and proposes solutions for integrating their discipline within the larger program objective and activities Engineers and leaders alike will benefit from detailed discussions of product negotiation program assessment culture change methods and more All readers will understand the progression of product design methods over the previous decades including how market acceptance is changing Reliability Culture How Leaders Build Organizations that Create Reliable Products is intended for a broad audience that includes organizational leaders engineers of all disciplines project managers and business development partners The book is aimed at outlining how reliability engineering practices fit with all program activities so any team members will benefit Network World ,1995-10-23 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce Technical Abstract Bulletin ,1965 **Plumbing Engineer** ,1990

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Certified Reliability Engineer Primer Introduction

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