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04X3K0 - GRANT ANGIE

This book was written to aid quality technicians and engineers. It is a compilation of 30 years of quality-related work experience and the result of frustration at the number of books necessary, at times, to provide statistical support. To that end, the intent of this book is to provide the quality professional working in virtually any industry a quick, convenient, and comprehensive guide to properly utilize statistics in an efficient and effective manner. This book will be a useful reference when preparing for and taking many of the ASQ quality certification examinations, including the Certified Quality Technician (CQT), Certified Six Sigma Green Belt (CSSGB), Certified Quality Engineer (CQE), Certified Six Sigma Black Belt (CSSBB), and Certified Reliability Engineer (CRE). This book is an expansion of the work of Robert A. Dovich in his books Quality Engineering Statistics and Reliability Statistics. It builds on and expands Dovich's method of presenting statistical applications in a simple, easy-to-follow format.

Explore the ins and outs of becoming an AWS certified DevOps professional engineer with the help of easy-to-follow practical examples and detailed explanations Key Features Discover how to implement and manage continuous delivery systems and methodologies on AWS Explore real-world scenarios and hands-on examples that will prepare you to take the DOP-C01 exam with confidence Learn from enterprise DevOps scenarios to prepare fully for the AWS certification exam Book Description The AWS Certified DevOps Engineer certification is one of the highest AWS credentials, vastly recognized in cloud computing or software development industries. This book is an extensive guide to helping you strengthen your DevOps skills as you work with your AWS workloads on a day-to-day basis. You'll begin by learning how to create and deploy a workload using the AWS code suite of tools, and then move on to adding monitoring and fault tolerance to your workload. You'll explore enterprise scenarios that'll help you to understand various AWS tools and services. This book is packed with detailed explanations of essential concepts to help you get to grips with the domains needed to pass the DevOps professional exam. As you advance, you'll delve into AWS with the help of hands-on examples and practice questions to gain a holistic understanding of the services covered in the AWS DevOps professional exam. Throughout the book, you'll find real-world scenarios that you can easily incorporate in your daily activities when working with AWS, making you a valuable asset for any organization. By the end of this AWS certification book, you'll have gained the knowledge needed to pass the AWS Certified DevOps Engineer exam, and be able to implement different techniques for delivering each service in real-world scenarios. What you will learn Automate your pipelines, build phases, and deployments with AWS-native tooling Discover how to implement logging and monitoring using AWS-native tooling Gain a solid understanding of the services included in the AWS DevOps Professional exam Reinforce security practices on the AWS platform from an exam point of view Find out how to automatically enforce standards and policies in AWS environments Explore AWS best practices and anti-patterns Enhance your core AWS skills with the help of exercises and practice tests Who this book is for This book is for AWS developers and SysOps administrators looking to advance their careers by achieving the highly sought-after DevOps Professional certification. Basic knowledge of AWS as well as its core services (EC2, S3, and RDS) is needed. Familiarity with DevOps concepts such as source control, monitoring, and logging, not necessarily in the AWS context, will be helpful.

"This handbook is a comprehensive reference source designed to help professionals address organizational issues from the application of the basic principles of management to the development of strategies needed to deal with the technological and societal concerns of the new millennium. The content of this fourth edition has been revised to reflect a more current global perspective and to align with the 2014 Certified Manager of Quality/Organizational Excellence (CMQ/OE) Body of Knowledge (BoK). In order to provide a broad perspective of quality management, this book has specifically been written to address: Historical perspectives relating to the evolution of particular aspects of quality management, including recognized experts and their contributions Key principles, concepts, and terminology relevant in providing quality leadership, and communicating quality needs and results Benefits associated with the application of key concepts and quality management principles Best practices describing recognized approaches for good quality management Barriers to success, including common problems that the quality manager might experience when designing and implementing quality management, and insights as to why some quality initiatives fail Guidance for preparation to take the CMQ/OE examination. Organized to follow the BoK exact-

ly, throughout each section of this handbook the categorical BoK requirements associated with good quality management practices for that section are shown in a box preceding the pertinent text. These BoK requirements represent the range of content and the cognitive level to which multiple-choice questions can be presented. Although this handbook thoroughly prepares individuals for the ASQ CMQ/OE exam, the real value resides in post-exam usage as a day-to-day reference source for assessing quality applications and methodologies in daily processes. The content is written from the perspective of practitioners, and its relevance extends beyond traditional product quality applications"--

The book includes the highest quality practice tests for the AWS Cloud Practitioner Certification Exam. There are six practice exams with 65 questions each, and each set of practice exams includes questions from all domains of the latest CLF-C01 exam.

This book is Part 3 of Cat I Prep I Package (8 parts) which is designed to help you prepare for and pass Vibration Analyst Category I certification exam. Each part covers certain topics of the Body of Knowledge according to ISO 18436-2 standard. The questions are arranged in the Package to provide the best learning experience. Part 3 contains 130 questions on "Signal Processing". Cat I Prep I is the first package of its kind. It addresses all topics in the ISO standard for Category I in a form of question banks. All exam candidates can rely on the question banks, as the package is not biased towards a specific certifying body. The package offers more than 777 questions that are 12 times the questions in a real exam. Cat I Prep I meets and exceeds the standard requirements. The overall difficulty of Cat I Prep I is a bit higher than Cat I real exams in order to strengthen your readiness before taking the real exam. Don't guess where your skill stands; certify it. PrepCertify believes that the best preparation for professional certifications is obtained through practicing well-designed real world problems. Learn what really matters in current industry while mastering the Body of Knowledge in the certification standards. Your Cat I Prep I series does that for you. Through PrepCertify, you will achieve your certification in a much shorter time and with a greater result of your time and effort. Currently, at PrepCertify we do not offer certification tests. However, we encourage you to explore the certifying bodies available to you and examine the differences between their offerings. Below are some organizations to consider for training and certification (ordered alphabetically): B&K British Institute of Non-Destructive Testing BINDT Canadian Machinery Vibration Association (CMVA) Emerson or CSI IIRD Mechanical Society Japan Society of Mechanical Engineers Korean Society for Noise & Vibration Engineering Mobius Institute SKF Technical Associates of Charlotte Update International Vibration institute A comprehensive reference manual to the Certified Quality Engineer Body of Knowledge and study guide for the CQE exam.

The infrastructure-as-code revolution in IT is also affecting database administration. With this practical book, developers, system administrators, and junior to mid-level DBAs will learn how the modern practice of site reliability engineering applies to the craft of database architecture and operations. Authors Laine Campbell and Charity Majors provide a framework for professionals looking to join the ranks of today's database reliability engineers (DBRE). You'll begin by exploring core operational concepts that DBREs need to master. Then you'll examine a wide range of database persistence options, including how to implement key technologies to provide resilient, scalable, and performant data storage and retrieval. With a firm foundation in database reliability engineering, you'll be ready to dive into the architecture and operations of any modern database. This book covers: Service-level requirements and risk management Building and evolving an architecture for operational visibility Infrastructure engineering and infrastructure management How to facilitate the release management process Data storage, indexing, and replication Identifying datastore characteristics and best use cases Datastore architectural components and data-driven architectures

The job market continues to change. Highly skilled and specialized workers are in demand. Traditional education cannot meet all the needs to create specialty skill workers. Certification provides up-to-date training and development while promoting individual or professional skills and knowledge in a focused manner. Certification as a way of continuing professional education can also be more cost effective.

Pass the Google Professional Cloud DevOps Engineer exam on your first Try With our New and Exclusive practice questions all new for the updated exam objectives. This New Preparation Book gives you the opportunity to test your level of understanding and gauge your readiness for the Google Professional Cloud DevOps Engineer exam long before the big day. These questions cover 100% of the Google Professional Cloud DevOps Engineer exam do-

mains and topics and include answers with full explanations and references to help you understand the reasoning and approach for each. In this New And Exclusive Book, you will find 100+ practice questions similar to the ones you will find in the official exam. They are based on official Google Cloud Platform: Professional Cloud DevOps Engineer exams and they contain a full explanation of the answers. In addition, we provide links to the official Google cloud documentation for further research of the answer. Our New and Exclusive Book contains up-to-date practice exams that allows you to simulate the exam day experience and apply your own test-taking strategies with domains given in proportion to the real thing. The online learning environment and practice exams are the perfect way to prepare and make your progress easy to track. For this new Edition, cloud security experts in our team have delivered an all-new question set for the new Google Professional Cloud DevOps Engineer Exam objectives. Our experts are well known for their best-selling IT Certifications Official Practice Tests and now they've joined forces again to deliver the same high caliber practice questions for the Google Professional Cloud DevOps Engineer exam. The Google Professional Cloud DevOps Engineer is a 2-hour long exam. The exam includes 100+ multiple-choice questions. Above all, you must obtain a minimum of 700 points out of a possible 1000 in order to pass the CCSP Exam or (70%). Welcome!

There are over 24 quality control systems recommended for the control and improvement of quality and process; there are over 30 techniques and buzzwords suggested for implementing these systems and to assist in learning about these systems and techniques; there are well over 200 courses, seminars, programs, and conferences available. This book discusses the pros and cons of these many alternatives, suggests how an effective system can be assembled or reconstructed by selecting and combining some basic engineering methods, some non-statistical methods based on team efforts, and seven statistical tools, with computer application assistance. Different requirements of different companies mean there is no one best way to construct or modify a quality system plan. There is no plan that can "fit all sizes." This book presents in clear and simple terms the needs, goals, cautions, and suggested procedures you should consider when modifying or constructing an effective system for your company.

This book is a comprehensive exam guide to help prepare for the AWS Cloud Certified Practitioner exam. The book has extensive diagrams to help understand topics much easier way. The book is divided into different sections to logically group related chapters in one section. It has the following sections: Cloud Computing (Cloud Computing Introduction, Cloud Computing Service Categories, Cloud Deployment Models, Virtualization,) AWS Fundamentals (What is AWS, AWS Account, AWS Free Tier, AWS Cost & Billing Management, AWS Global Cloud Infrastructure (part I)), IAM, EC2) AWS Advanced (EC2 Advanced, ELB, Advanced S3, Route 53, AWS Global Cloud Infrastructure (part II), Advanced Storage on AWS, AWS Monitoring, Audit, and Performance), AWS RDS and Databases (AWS RDS and Cache, AWS Databases) Serverless (Serverless Computing, AWS Integration, and Messaging) Container & CI/CD (Container, AWS CI/CD services) Data & Analytics (Data & Analytics) Machine Learning (AWS ML/AI Services) Security (AWS Security & Encryption, AWS Shared Responsibility Model, How to get Support on AWS, Advanced Identity) Networking (AWS Networking) Solutions Architecture (Cloud Architecture Key Design Principles, AWS Well-Architected Framework) Practice Tests Includes AWS services/features such as IAM, S3, EC2, EC2 purchasing options, EC2 placement groups, Load Balancers, Auto Scaling, S3 Glacier, S3 Storage classes, Route 53 Routing policies, CloudFront, Global Accelerator, EFS, EBS, Instance Store, AWS Snow Family, AWS Storage Gateway, AWS Transfer Family, Amazon CloudWatch, EventBridge, CloudWatch Insights, AWS CloudTrail, AWS Config, Amazon RDS, Amazon Aurora, Amazon ElastiCache, Amazon DocumentDB, Amazon Keyspaces, Amazon Quantum Ledger Database, Amazon Timestream, Amazon Managed Blockchain, AWS Lambda, Amazon DynamoDB, Amazon API Gateway, SQS, SNS, SES, Amazon Kinesis, Amazon Kinesis Firehose, Amazon Kinesis Data Analytics, Amazon Kinesis Data Streams, Amazon Kinesis ECS, Amazon Kinesis ECR, Amazon EKS, AWS CloudFormation, AWS Elastic Beanstalk, AWS CodeBuild, AWS OpsWorks, AWS CodeGuru, AWS CodeCommit, Amazon Athena, Amazon Redshift, Amazon EMR, Amazon QuickSight, AWS Glue, AWS Lake Formation, Amazon MSK, Amazon Rekognition, Amazon Transcribe, Amazon Polly, Amazon Translate, Amazon Lex, Amazon Connect, Amazon Comprehend, Amazon Comprehend Medical, Amazon SageMaker, Amazon Forecast, Amazon Kendra, Amazon Personalize, Amazon Textract, Amazon Fraud Detector, Amazon Sumerian, AWS WAF, AWS Shield Standard, AWS Shield Advanced, AWS Firewall Manager, AWS GuardDuty, Amazon Inspector, Amazon Macie, Amazon Detective,

SSM Session Manager, AWS Systems Manager, S3 Replication & Encryption, AWS Organization, AWS Control Tower, AWS SSO, Amazon Cognito, AWS VPC, NAT Gateway, VPC Endpoints, VPC Peering, AWS Transit Gateway, AWS Site-to-Site VPC, Database Management Service (DMS), and many others. In the last section (Practice Tests), there are five practice test sets with answers containing 65 exam-like questions. These questions will help you apply your learning to better prepare for the exam.

This reference manual is designed to help those interested in passing the ASQ's certification exam for Six Sigma Green Belts and others who want a handy reference to the appropriate materials needed to conduct successful Green Belt projects. It is a reference handbook on running projects for those who are already knowledgeable about process improvement and variation reduction. The primary layout of the handbook follows the ASQ Body of Knowledge (BoK) for the Certified Six Sigma Green Belt (CSSGB) updated in 2015. The authors were involved with the first edition handbook, and have utilized first edition user comments, numerous Six Sigma practitioners, and their own personal knowledge gained through helping others prepare for exams to bring together a handbook that they hope will be very beneficial to anyone seeking to pass the ASQ or other Green Belt exams. In addition to the primary text, the authors have added a number of new appendixes, an expanded acronym list, new practice exam questions, and other additional materials

The ASQ Certified Quality Engineer Handbook, Fifth Edition, covers a wide range of topics in the quality engineering field and is organized to align with the 2022 ASQ Certified Quality Engineer (CQE) Body of Knowledge (BoK). This handbook is essential for candidates preparing for the ASQ CQE examination. For working engineers, it is a convenient and thorough guide to the profession. In addition to providing detailed explanations of each section of the 2022 CQE BoK, this current edition includes:

- An explanation of cost-benefit analysis (CBA) and the RACI matrix; critical to quality as a design input; hazard analysis and FMEA; overall equipment effectiveness (OEE); 5 Whys analysis; data automation and database integration; and assessing risk in audit planning and implementation
- New chapter on risk management
- Appendixes and a Glossary of Terms for reference purposes

Content in this fifth edition has been restructured to provide tools and concepts that match the 2022 CQE BoK, as well as improved textbook and journal article references throughout the entire book. This handbook also provides case studies that give readers a broader context for real-life scenarios and applications.

The best way to master probability is to work problems-lots of them. Through repeated practice, formerly fuzzy concepts begin to make sense, and solution strategies become clear. The Probability Workbook is a companion to The Probability Handbook, which covers counting techniques, probability rules, discrete probability distributions, and continuous probability distributions. This workbook offers more than 400 problems covering a wide range of probability techniques and distributions. From poker problems, to famous problems by luminaries in the field such as Pascal, Fermat, Bertrand, Fisher, and Deming, this one-of-a-kind book gives detailed numerical solutions and explanations presented in a conversational way. There are general probability questions involving travel itineraries, baseball, and birth orders, as well as more real-world applications such as quality inspection, reliability, statistical process control, and simulation. Problems applicable to the manufacturing, healthcare, business, and hospitality and tourism industries are included. For easy reference, each numbered problem in the workbook is categorized by broad topic area, and then by a more detailed, descriptive title. In addition to the topic and title, the level of difficulty is displayed for each problem using a die icon. This workbook is an invaluable resource for the probability portions of ASQ's CQE, CSSGB, CSSBB, CSSMBB, and CRE exams. Which Microsoft Certification should you choose? This book give you the answers you need, so you can advance your career."I find this book quite useful based on what I have seen so far. And I believe, it's gonna be a good resource to learn more about the updated Microsoft certifications" - Shashi Kumar

Microsoft Certification offers learning and career growth paths for self-paced learners looking to grow their skills and stay up-to-date in the rapidly changing landscape of the Microsoft Azure cloud. What certifications are available for beginners, or experienced engineers? What about for those new to IT? What about for the experts looking to go the extra mile? Find out how to earn the certification that is best for you, your experience, and your individual career goal!

An indispensable guide to the newest version of the Google Certified Professional Cloud Architect certification The newly revised Second Edition of the Google Cloud Certified Professional Cloud Architect Study Guide delivers a proven and effective roadmap to success on the latest Professional Cloud Architect accreditation exam from Google. You'll learn the skills you need to excel on the test and in the field, with coverage of every exam objective and competency, including focus areas of the latest exam such as Kubernetes, Anthos, and multi-cloud architectures. The book explores the design, analysis, development, operations, and migration components of the job, with intuitively organized lessons that align with the real-world job responsibilities of a Google Cloud professional and with the PCA exam topics. Architects need more than the ability to recall facts about cloud services, they need to

be able to reason about design decisions. This study guide is unique in how it helps you learn to think like an architect: understand requirements, assess constraints, choose appropriate architecture patterns, and consider the operational characteristics of the systems you design. Review questions and practice exams use scenario-based questions like those on the certification exam to build the test taking skills you will need. In addition to comprehensive material on compute resources, storage systems, networks, security, legal and regulatory compliance, reliability design, technical and business processes, and more, you'll get: The chance to begin or advance your career as an in-demand Google Cloud IT professional Invaluable opportunities to develop and practice the skills you'll need as a Google Cloud Architect Access to the Sybex online learning center, with chapter review questions, full-length practice exams, hundreds of electronic flashcards, and a glossary of key terms The ideal resource for anyone preparing for the Professional Cloud Architect certification from Google, Google Cloud Certified Professional Cloud Architect Study Guide, 2nd Edition is also a must-read resource for aspiring and practicing cloud professionals seeking to expand or improve their technical skillset and improve their effectiveness in the field.

Introduction Vision, Mission and Strategy Maintenance Basics Planning and Scheduling Parts, Materials and Tools Management Reliability Operational Reliability M&R Tools Performance Measure - Metrics Human Side of M&R Best Practices/Benchmarking Maintenance Excellence Appendixes

Probability is tough - even those fairly well versed in statistical analysis balk at the prospect of tackling it. Many probability concepts seem counterintuitive at first, and the successful student must in effect train him or herself to think in a totally new way. Mastery of probability takes a lot of time, and only comes from solving many, many problems. The aim of this text and its companion, The Probability Workbook (coming soon), is to present the subject of probability as a tutor would. Probability concepts are explained in everyday language and worked examples are presented in abundance. In addition to paper-and-pencil solutions, solution strategies using Microsoft Excel functions are given. All mathematical symbols are explained, and the mathematical rigor is kept on an algebra level; calculus is avoided. This book is written for quality practitioners who are currently performing statistical and probability analyses in their workplaces, and for those seeking to learn probability concepts for the American Society for Quality (ASQ) Certified Quality Engineer, Reliability Engineer, Six Sigma Green Belt, Black Belt, or Master Black Belt exams.

In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world.

Intro / prep handbook on basics of the quality field / its philosophies for ASQ's CQIA (Certified Quality Improvement Associate) certification exam.

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.

This reference manual is designed to help both those interested in passing the exam for ASQ's Certified Six Sigma Yellow Belt (CSSYB) and those who want a handy reference to the appropriate materials needed for successful Six Sigma projects. It is intended to be a reference for both beginners in Six Sigma and those who are already knowledgeable about process improvement and variation reduction. The primary layout of the handbook follows the Body of Knowledge (BoK) for the CSSYB released in 2015. The author has utilized feedback from Six Sigma practitioners and knowledge gained through helping others prepare for exams to create a handbook that will be beneficial to anyone seeking to pass not only the CSSYB exam but also other Six Sigma exams. In addition to the primary text, the handbook contains numerous appendixes, a comprehensive list of abbreviations, and a CD-ROM with practice exam questions, recorded webinars, and several useful publications. Each chapter includes essay-type questions to test the comprehension of students using this book at colleges and universities. Six Sigma trainers for organizations may find this additional feature useful, as they want their trainees (staff) to not only pass ASQ's Six Sigma exams but have a comprehensive understanding of the Body of Knowledge that will allow them to support real Six Sigma projects in their roles.

A comprehensive reference manual to the Certified Reliability Engineer Body of Knowledge and study guide for the CRE exam.

The book includes the highest quality practice tests for the AWS Certified Solutions Architect - Associate level Exam. There are five practice exams with 65 questions each, and each set of practice exams includes questions from all domains.

This book is Part 1 of Cat I Prep I Package (8 parts) which is designed to help you prepare and pass Vibration Analyst Category I certification exam. Each part covers certain topics of the Body of Knowledge according to ISO 18436-2 standard. The questions are

arranged in the Package to provide the best learning experience. Part 1 contains 111 questions on 'Principles of Vibration'. Cat I Prep I is the first package of its kind as it addresses all topics in the ISO standard for Category I in a form of question banks. All exam candidates can rely on the question banks, as the package is not biased towards a specific certifying body. The package offers more than 777 questions that are 12 times the questions in a real exam. Cat I Prep I meets and exceeds the standard requirements. The overall difficulty of Cat I Prep I is a bit higher than Cat I real exams in order to strengthen your readiness before taking the real exam.

This book is primarily meant to aid those taking the ASQ Certified Quality Engineer (CQE) exam and is best used in conjunction with The Certified Quality Engineer Handbook. Section 1 provides 380 practice questions organized by the seven parts of the 2015 Body of Knowledge (BOK). Section 2 gives the reader 205 additional practice questions from each of the seven parts, in a randomized order. For every question in both sections, detailed solutions are provided that explain why each answer is the correct one and also which section of the BOK the question corresponds to so that any further study needed can be focused on specific sections. A secondary audience is those taking exams for ASQ certifications whose BOKs have some crossover with the CQE. Namely, the Certified Six Sigma Black Belt (CSSBB), Certified Six Sigma Green Belt (CSSGB), Certified Reliability Engineer (CRE), and Certified Quality Inspector (CQI). Using this guide in studying for any of these exams would be extremely useful, particularly for the statistics portions of the BOKs. Unlike other resources on the market, all these questions and solutions were developed specifically to address the 2015 CQE Body of Knowledge and help those studying for it, including taking into account the proper depth of knowledge and required levels of cognition. None of this material has appeared in any previous resource or been shoehorned into fitting under the BOK's topics. NOTE: Practice/sample test questions such as those in this study guide cannot be taken into ASQ certification exam rooms.

A comprehensive reference manual to the Certified Software Quality Engineer Body of Knowledge and study guide for the CSQE exam.

If you create, manage, operate, or configure systems running in the cloud, you're a cloud engineer—even if you work as a system administrator, software developer, data scientist, or site reliability engineer. With this book, professionals from around the world provide valuable insight into today's cloud engineering role. These concise articles explore the entire cloud computing experience, including fundamentals, architecture, and migration. You'll delve into security and compliance, operations and reliability, and software development. And examine networking, organizational culture, and more. You're sure to find 1, 2, or 97 things that inspire you to dig deeper and expand your own career. "Three Keys to Making the Right Multicloud Decisions," Brendan O'Leary "Serverless Bad Practices," Manases Jesus Galindo Bello "Failing a Cloud Migration," Lee Atchison "Treat Your Cloud Environment as If It Were On Premises," Iyana Garry "What Is Toil, and Why Are SREs Obsessed with It?," Zachary Nickens "Lean QA: The QA Evolving in the DevOps World," Theresa Neate "How Economies of Scale Work in the Cloud," Jon Moore "The Cloud Is Not About the Cloud," Ken Corless "Data Gravity: The Importance of Data Management in the Cloud," Geoff Hughes "Even in the Cloud, the Network Is the Foundation," David Murray "Cloud Engineering Is About Culture, Not Containers," Holly Cummins

Sybex's proven Study Guide format teaches Google Cloud Architect job skills and prepares you for this important new Cloud exam. The Google Cloud Certified Professional Cloud Architect Study Guide is the essential resource for anyone preparing for this highly sought-after, professional-level certification. Clear and accurate chapters cover 100% of exam objectives—helping you gain the knowledge and confidence to succeed on exam day. A pre-book assessment quiz helps you evaluate your skills, while chapter review questions emphasize critical points of learning. Detailed explanations of crucial topics include analyzing and defining technical and business processes, migration planning, and designing storage systems, networks, and compute resources. Written by Dan Sullivan—a well-known author and software architect specializing in analytics, machine learning, and cloud computing—this invaluable study guide includes access to the Sybex interactive online learning environment, which includes complete practice tests, electronic flash cards, a searchable glossary, and more. Providing services suitable for a wide range of applications, particularly in high-growth areas of analytics and machine learning, Google Cloud is rapidly gaining market share in the cloud computing world. Organizations are seeking certified IT professionals with the ability to deploy and operate infrastructure, services, and networks in the Google Cloud. Take your career to the next level by validating your skills and earning certification. Design and plan cloud solution architecture Manage and provision cloud infrastructure Ensure legal compliance and security standards Understand options for implementing hybrid clouds Develop solutions that meet reliability, business, and technical requirements The Google Cloud Certified Professional Cloud Architect Study Guide is a must-have for IT professionals preparing for certification to deploy and manage Google cloud services.

The first edition of the award-winning Maintenance and Reliability Best Practices immediately became one of the most widely read texts by maintenance, reliability, operations, and safety professionals. It is also being used at many colleges and universities throughout the world. Maintenance and Reliability Best Practices has become a standard reference for anyone preparing for maintenance and reliability professional exams. In the time since original publication, this book has become a must-have guide and reference. It helps everyone ensure that their organization's assets are operating as and when needed and at reasonable cost. The new Third Edition includes updates throughout, with new material on integrity, ethics, diversity, and standards, plus a focus on maintenance budgets and asset management.

Deep learning is often viewed as the exclusive domain of math PhDs and big tech companies. But as this hands-on guide demonstrates, programmers comfortable with Python can achieve impressive results in deep learning with little math background, small amounts of data, and minimal code. How? With fastai, the first library to provide a consistent interface to the most frequently used deep learning applications. Authors Jeremy Howard and Sylvain Gugger, the creators of fastai, show you how to train a model on a wide range of tasks using fastai and PyTorch. You'll also dive progressively further into deep learning theory to gain a complete understanding of the algorithms behind the scenes. Train models in computer vision, natural language processing, tabular data, and collaborative filtering. Learn the latest deep learning tech-

niques that matter most in practice. Improve accuracy, speed, and reliability by understanding how deep learning models work. Discover how to turn your models into web applications. Implement deep learning algorithms from scratch. Consider the ethical implications of your work. Gain insight from the foreword by PyTorch co-founder, Soumith Chintala.

This book is primarily meant to aid those taking the ASQ Certified Quality Engineer (CQE) exam and is best used in conjunction with The Certified Quality Engineer Handbook. Section 1 provides 380 practice questions organized by the seven parts of the 2015 Body of Knowledge (BOK). Section 2 gives the reader 205 additional practice questions from each of the seven parts, in a randomized order. For every question in both sections, detailed solutions are provided that explain why each answer is the correct one and also which section of the BOK the question corresponds to so that any further study needed can be focused on specific sections. A secondary audience is those taking exams for ASQ certifications whose BOKs have some crossover with the CQE. Namely, the Certified Six Sigma Black Belt (CSSBB), Certified Six Sigma Green Belt (CSSGB), Certified Reliability Engineer (CRE), and Certified Quality Inspector (CQI). Using this guide in studying for any of these exams would be extremely useful, particularly for the statistics portions of the BOKs. Unlike other resources on the market, all these questions and solutions were developed specifically to address the 2015 CQE Body of Knowledge and help those studying for it, including taking into account the proper depth of knowl-

edge and required levels of cognition. None of this material has appeared in any previous resource or been shoehorned into fitting under the BOK's topics. NOTE: Practice/sample test questions such as those in this study guide cannot be taken into ASQ certification exam rooms.

The proven Study Guide that prepares you for this new Google Cloud exam. The Google Cloud Certified Professional Data Engineer Study Guide, provides everything you need to prepare for this important exam and master the skills necessary to land that coveted Google Cloud Professional Data Engineer certification. Beginning with a pre-book assessment quiz to evaluate what you know before you begin, each chapter features exam objectives and review questions, plus the online learning environment includes additional complete practice tests. Written by Dan Sullivan, a popular and experienced online course author for machine learning, big data, and Cloud topics, Google Cloud Certified Professional Data Engineer Study Guide is your ace in the hole for deploying and managing analytics and machine learning applications. Build and operationalize storage systems, pipelines, and compute infrastructure. Understand machine learning models and learn how to select pre-built models. Monitor and troubleshoot machine learning models. Design analytics and machine learning applications that are secure, scalable, and highly available. This exam guide is designed to help you develop an in depth understanding of data engineering and machine learning on Google Cloud Platform.