

Sas Certification Study Guide

The official guide by the SAS Global Certification Program, SAS Certified Professional Prep Guide: Advanced Programming Using SAS 9.4 prepares you to take the new SAS 9.4 Advanced Programming Performance-Based Exam. New in this edition is a workbook whose sample scenarios require you to write code to solve problems and answer questions. Answers to the chapter quizzes and solutions to the sample scenarios in the workbook are included. You will also find links to exam objectives, practice exams, and other resources such as the Base SAS Glossary and a list of practice data sets. Major topics include SQL processing, SAS macro language processing, and advanced SAS programming techniques. All exam topics are covered in the following chapters: SQL Processing with SAS PROC SQL Fundamentals Creating and Managing Tables Joining Tables Using PROC SQL Joining Tables Using Set Operators Using Subqueries Advanced SQL Techniques SAS Macro Language Processing Creating and Using Macro Variables Storing and Processing Text Working with Macro Programs Advanced Macro Techniques Advanced SAS Programming Techniques Defining and Processing Arrays Processing Data Using Hash Objects Using SAS Utility Procedures Using Advanced Functions

Practice Programming Scenarios (Workbook)

Must-have study guide for the SAS® Certified Statistical Business Analyst Using SAS®9:

Regression and Modeling exam! Written for both new and experienced SAS programmers, the SAS® Certification Prep Guide: Statistical Business Analysis Using SAS®9 is an in-depth prep guide for the SAS® Certified Statistical Business Analyst Using SAS®9: Regression and Modeling exam. The authors step through identifying the business question, generating results with SAS, and interpreting the output in a business context. The case study approach uses both real and simulated data to master the content of the certification exam. Each chapter also includes a quiz aimed at testing the reader's comprehension of the material presented. Major topics include: ANOVA Linear Regression Logistic Regression Inputs for Predictive Modeling Model Performance For those new to statistical topics or those needing a review of statistical foundations, this book also serves as an excellent reference guide for understanding descriptive and inferential statistics. This book is part of the SAS Press program.

Get up and running with SAS using Ron Cody's easy-to-follow, step-by-step guide. Aimed at beginners, Getting Started with SAS Programming: Using SAS Studio in the Cloud uses short examples to teach SAS programming from the basics to more

advanced topics in the point-and-click interactive environment of SAS Studio. To begin, you will learn how to register for SAS OnDemand for Academics, an online delivery platform for teaching and learning statistical analysis that provides free access to SAS software via the cloud. The first part of the book shows you how to use SAS Studio built-in tasks to produce a report, summarize data, and create charts and graphs. It also describes how you can perform basic statistical tests using the interactive point-and-click environment. The second part of the book uses easy-to-follow examples to show you how to write your own SAS programs and how to use SAS procedures to perform a variety of tasks. This part of the book also explains how to read data from a variety of sources: text files, Excel workbooks, and CSV files. In order to get familiar with the SAS Studio environment, this book also shows you how to access dozens of interesting data sets that are included with the SAS OnDemand for Academics platform.

For SAS programmers or analysts who need to generalize their programs or improve programming efficiency, Art Carpenter thoroughly updates his highly successful second edition of *Carpenter's Complete Guide to the SAS Macro Language* with an extensive collection of new macro language techniques and examples. Addressing the composition and operation of the SAS macro facility

and the SAS macro language, this third edition offers nearly 400 ready-to-use macros, macro functions, and macro tools that enable you to convert SAS code to macros, define macro variables, and more! Users with a basic understanding of Base SAS who are new to the SAS macro language will find more detail, utilities, and references to additional learning opportunities; advanced macro language programmers who need help with data-driven macros and dynamic application development will find greatly expanded treatment of these topics. This revised and enlarged edition includes the following topics: New and expanded introduction to the macro language Functions, automatic macro variables, and macro statements new to the macro language Expanded macro language tools that interface with the operating system Expanded data-driven methodologies used to build dynamic applications Expanded discussion of list processing, with four alternative approaches presented Additional file and data management examples Expanded discussion of CALL EXECUTE and DOSUBL New discussion of using the macro language on remote servers Expanded discussion and examples of macro quoting Far beyond a reference manual issued from an "ivory tower," this book is pragmatic and example-driven: Yes, you will find syntax examples; yes, the code is explained. But the focus of this book is on actual code used to solve real-world business

problems. In fact, an entire appendix is dedicated to listing the nearly 70 classes of problems that are solved by programs covered in this edition.

Discussion of the examples elucidates the pros and cons of the particular solution and often suggests alternative approaches. Therefore, this book provides you both a compendium of reusable and adaptable code, and opportunities for deepening your understanding and growing as a SAS programmer.

Leverage the full potential of SAS to get unique, actionable insights from your data

Key Features

Build enterprise-class data solutions using SAS and become well-versed in SAS programming

Work with different data structures, and run SQL queries to manipulate your data

Explore essential concepts and techniques with practical examples to confidently pass the SAS certification exam

Book Description

SAS is one of the leading enterprise tools in the world today when it comes to data management and analysis. It enables the fast and easy processing of data and helps you gain valuable business insights for effective decision-making. This book will serve as a comprehensive guide that will prepare you for the SAS certification exam. After a quick overview of the SAS architecture and components, the book will take you through the different approaches to importing and reading data from different sources using SAS. You will then cover SAS Base and 4GL,

understanding data management and analysis, along with exploring SAS functions for data manipulation and transformation. Next, you'll discover SQL procedures and get up to speed on creating and validating queries. In the concluding chapters, you'll learn all about data visualization, right from creating bar charts and sample geographic maps through to assigning patterns and formats. In addition to this, the book will focus on macro programming and its advanced aspects. By the end of this book, you will be well versed in SAS programming and have the skills you need to easily handle and manage your data-related problems in SAS. What you will learn

- Explore a variety of SAS modules and packages for efficient data analysis
- Use SAS 4GL functions to manipulate, merge, sort, and transform data
- Gain useful insights into advanced PROC SQL options in SAS to interact with data
- Get to grips with SAS Macro and define your own macros to share data
- Discover the different graphical libraries to shape and visualize data with
- Apply the SAS Output Delivery System to prepare detailed reports

Who this book is for Budding or experienced data professionals who want to get started with SAS will benefit from this book. Those looking to prepare for the SAS certification exam will also find this book to be a useful resource. Some understanding of basic data management concepts will help you get the most out of this book.

Foreword by Oliver Schabenberger, PhD Executive Vice President, Chief Operating Officer and Chief Technology Officer SAS Dive into deep learning! Machine learning and deep learning are ubiquitous in our homes and workplaces—from machine translation to image recognition and predictive analytics to autonomous driving. Deep learning holds the promise of improving many everyday tasks in a variety of disciplines. Much deep learning literature explains the mechanics of deep learning with the goal of implementing cognitive applications fueled by Big Data. This book is different. Written by an expert in high-performance analytics, *Deep Learning for Numerical Applications with SAS* introduces a new field: Deep Learning for Numerical Applications (DL4NA). Contrary to deep learning, the primary goal of DL4NA is not to learn from data but to dramatically improve the performance of numerical applications by training deep neural networks. *Deep Learning for Numerical Applications with SAS* presents deep learning concepts in SAS along with step-by-step techniques that allow you to easily reproduce the examples on your high-performance analytics systems. It also discusses the latest hardware innovations that can power your SAS programs: from many-core CPUs to GPUs to FPGAs to ASICs. This book assumes the reader has no prior knowledge of high-performance computing, machine learning, or deep learning. It is intended for

SAS developers who want to develop and run the fastest analytics. In addition to discovering the latest trends in hybrid architectures with GPUs and FPGAS, readers will learn how to Use deep learning in SAS Speed up their analytics using deep learning Easily write highly parallel programs using the many task computing paradigms This book is part of the SAS Press program.

The SAS® Certified Specialist Prep Guide: Base Programming Using SAS® 9.4 prepares you to take the new SAS 9.4 Base Programming -- Performance-Based Exam. This is the official guide by the SAS Global Certification Program. This prep guide is for both new and experienced SAS users, and it covers all the objectives that are tested on the exam. New in this edition is a workbook whose sample scenarios require you to write code to solve problems and answer questions. Answers for the chapter quizzes and solutions for the sample scenarios in the workbook are included. You will also find links to exam objectives, practice exams, and other resources such as the Base SAS® glossary and a list of practice data sets. Major topics include importing data, creating and modifying SAS data sets, and identifying and correcting both data syntax and programming logic errors. All exam topics are covered in these chapters: Setting Up Practice Data Basic Concepts Accessing Your Data Creating SAS Data Sets Identifying and Correcting SAS Language

Errors Creating Reports Understanding DATA Step Processing BY-Group Processing Creating and Managing Variables Combining SAS Data Sets Processing Data with DO Loops SAS Formats and Informats SAS Date, Time, and Datetime Values Using Functions to Manipulate Data Producing Descriptive Statistics Creating Output Practice Programming Scenarios (Workbook)

This self-study exam preparation guide for the SAS Certified Base Programmer for SAS 9 certification exam contains everything you need to test yourself and pass the Exam. All Exam topics are covered and insider secrets, complete explanations of all SAS Certified Base Programmer for SAS 9 subjects, test tricks and tips, numerous highly realistic sample questions, and exercises designed to strengthen understanding of SAS Certified Base Programmer for SAS 9 concepts and prepare you for exam success on the first attempt are provided. Can you imagine valuing a book so much that you send the author a "Thank You" letter? Tens of thousands of people understand why this is a worldwide best-seller. Is it the authors years of experience? The endless hours of ongoing research? The interviews with those who failed the exam, to identify gaps in their knowledge? Or is it the razor-sharp focus on making sure you don't waste a single minute of your time studying any more than you absolutely have to? Actually, it's all of the above. This book includes new

exercises and sample questions never before in print. Offering numerous sample questions, critical time-saving tips plus information available nowhere else, this book will help you pass the SAS Certified Base Programmer for SAS 9 exam on your FIRST try. Up to speed with the theory? Buy this. Read it. And Pass the SAS Certified Base Programmer for SAS 9 Exam.

Master machine learning with SAS Viya! Machine learning can feel intimidating for new practitioners. Machine Learning with SAS Viya provides everything you need to know to get started with machine learning in SAS Viya, including decision trees, neural networks, and support vector machines. The analytics life cycle is covered from data preparation and discovery to deployment. Working with open-source code? Machine Learning with SAS Viya has you covered – step-by-step instructions are given on how to use SAS Model Manager tools with open source. SAS Model Studio features are highlighted to show how to carry out machine learning in SAS Viya. Demonstrations, practice tasks, and quizzes are included to help sharpen your skills. In this book, you will learn about: Supervised and unsupervised machine learning Data preparation and dealing with missing and unstructured data Model building and selection Improving and optimizing models Model deployment and monitoring performance Learn to program SAS by example! Learning SAS by Example, A Programmer's Guide, Second Edition, teaches SAS programming from very basic concepts to more advanced topics. Because most programmers prefer examples rather than reference-type syntax, this book uses short examples to explain each topic. The second edition has brought this classic book on SAS programming up to the

latest SAS version, with new chapters that cover topics such as PROC SGPLOT and Perl regular expressions. This book belongs on the shelf (or e-book reader) of anyone who programs in SAS, from those with little programming experience who want to learn SAS to intermediate and even advanced SAS programmers who want to learn new techniques or identify new ways to accomplish existing tasks. In an instructive and conversational tone, author Ron Cody clearly explains each programming technique and then illustrates it with one or more real-life examples, followed by a detailed description of how the program works. The text is divided into four major sections: Getting Started, DATA Step Processing, Presenting and Summarizing Your Data, and Advanced Topics. Subjects addressed include Reading data from external sources Learning details of DATA step programming Subsetting and combining SAS data sets Understanding SAS functions and working with arrays Creating reports with PROC REPORT and PROC TABULATE Getting started with the SAS macro language Leveraging PROC SQL Generating high-quality graphics Using advanced features of user-defined formats and informats Restructuring SAS data sets Working with multiple observations per subject Getting started with Perl regular expressions You can test your knowledge and hone your skills by solving the problems at the end of each chapter.

Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified Data Analytics Study Guide to give you the same experience working in these labs as you prepare for the Certified Data Analytics Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS Data Analyst. AWS Certified Data Analytics Study

Guide: Specialty (DAS-C01) Exam is intended for individuals who perform in a data analytics-focused role. This UPDATED exam validates an examinee's comprehensive understanding of using AWS services to design, build, secure, and maintain analytics solutions that provide insight from data. It assesses an examinee's ability to define AWS data analytics services and understand how they integrate with each other; and explain how AWS data analytics services fit in the data lifecycle of collection, storage, processing, and visualization. The book focuses on the following domains: • Collection • Storage and Data Management • Processing • Analysis and Visualization • Data Security This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS is the frontrunner in cloud computing products and services, and the AWS Certified Data Analytics Study Guide: Specialty exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, and much more. Written by an AWS subject-matter expert, this study guide covers exam concepts, and provides key review on exam topics. Readers will also have access to Sybex's superior online interactive learning environment and test bank, including chapter tests, practice exams, a glossary of key terms, and electronic flashcards. And included with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs AWS Certified Data Analytics Labs with 3 unique lab modules based on the book.

Learning to use SAS Enterprise Guide has never been easier! Whether you are using SAS Enterprise Guide for the first time, or are looking to expand your skills, this is the book for you! With The Little SAS Enterprise Guide Book, award-winning authors Susan Slaughter and Lora Delwiche help you

quickly become productive in the SAS Enterprise Guide point-and-click environment. A series of carefully designed tutorials help you master the basics of the tasks you'll want to do most frequently. The reference section of the book expands on the tutorial topics, covering specific features in more depth. This edition has been completely rewritten, and updated with new features in SAS Enterprise Guide.

Unlock the essentials of SAS programming! *Fundamentals of Programming in SAS: A Case Studies Approach* gives a complete introduction to SAS programming. Perfect for students, novice SAS users, and programmers studying for their Base SAS certification, this book covers all the basics, including: working with data creating visualizations data validation good programming practices Experienced programmers know that real-world scenarios require practical solutions. Designed for use in the classroom and for self-guided learners, this book takes a novel approach to learning SAS programming by following a single case study throughout the text and circling back to previous concepts to reinforce material. Readers will benefit from the variety of exercises, including both multiple choice questions and in-depth case studies. Additional case studies are also provided online for extra practice. This approach mirrors the way good SAS programmers develop their skills—through hands-on work with an eye toward developing the knowledge necessary to tackle more difficult tasks. After reading this book, you will gain the skills and confidence to take on larger challenges with the power of SAS.

New and experienced SAS users who want to prepare for the SAS Base Programming for SAS 9 certification exam will find this guide an invaluable, convenient, and comprehensive resource. Includes a CD-ROM with tutorials, practice data, and sample programs to further reinforce and test SAS skills. *Chamine* exposes how your mind is sabotaging you and

keeping you from achieving your true potential. He shows you how to take concrete steps to unleash the vast, untapped powers of your mind.

A classic that just keeps getting better, *The Little SAS Book* is essential for anyone learning SAS programming. Lora Delwiche and Susan Slaughter offer a user-friendly approach so that readers can quickly and easily learn the most commonly used features of the SAS language. Each topic is presented in a self-contained, two-page layout complete with examples and graphics. Nearly every section has been revised to ensure that the sixth edition is fully up-to-date. This edition is also interface-independent, written for all SAS programmers whether they use SAS Studio, SAS Enterprise Guide, or the SAS windowing environment. New sections have been added covering PROC SQL, iterative DO loops, DO WHILE and DO UNTIL statements, %DO statements, using variable names with special characters, the ODS EXCEL destination, and the XLSX LIBNAME engine. This title belongs on every SAS programmer's bookshelf. It's a resource not just to get you started, but one you will return to as you continue to improve your programming skills.

In an instructive and conversational tone, Cody clearly explains how to program SAS, illustrating with one or more real-life examples and giving a detailed description of how the program works.

Explains the source and content of administrative healthcare data, which is the product of financial reimbursement for healthcare services. The book integrates the business knowledge of healthcare data with practical and pertinent case studies as shown in *SAS Enterprise Guide*.

Prepare for the SAS Base Programming for SAS 9 exam with the official guide by the SAS Global Certification

Program. New and experienced SAS users who want to prepare for the SAS Base Programming for SAS 9 exam will find this guide to be a valuable resource that covers all of the objectives tested on the exam. Now in its fifth edition, the guide has been extensively updated and revised to streamline explanations. Major topics include importing data, creating and modifying SAS data sets, and identifying and correcting data syntax and programming logic errors. The chapter quizzes have been thoroughly updated and full solutions are included at the back of the book. In addition, links are provided to the exam objectives, practice exams, and other helpful resources, such as the updated Base SAS glossary and an expanded collection of practice data sets.

A thorough and self-contained treatment for SAS® users preparing for the Base Programming Certification Exam for SAS®9—complete with explanations, tips, and practice exam questions SAS® 9 Study Guide is designed to help users of SAS® 9 become familiar with the fine points of the software as well as develop solid study strategies that will shorten preparation time and ensure successful exam results. The following five study topics are addressed with a focused chapter devoted to each: accessing data; creating data structures; managing data; generating reports; and handling errors. SAS® 9 Study Guide provides both a conceptual and practical approach to each of these areas with detailed explanations followed by examples. Each chapter presents concepts, processes, and applications in a clear, step-by-step format along with detailed explanations and examples. Individual chapters also

contain: A Two-Minute Drill that provides a checklist of key points for review An Assessment Exam, which challenges readers to provide short answers detailing the chapter's coverage of SAS® 9 A Practice Exam, which reinforces content and familiarizes readers with the structure of the actual Base Programming Certification Exam Written by a practicing SAS® Certified Professional, this book is an intensive, but accessible, review for preparing for the Base Programming Certification Exam for SAS® 9 and can also serve as a practical reference tool for established certified professionals who would like to further their knowledge of SAS® 9.

This book is the only text or resource devoted to the subject of educational audiology and is recognized as the standard on this topic by instructors, students, and practitioners alike for its practicality, many ready-to-use resources, and comprehensiveness.

PROC SQL: Beyond the Basics Using SAS®, Third Edition, is a step-by-step, example-driven guide that helps readers master the language of PROC SQL. Packed with analysis and examples illustrating an assortment of PROC SQL options, statements, and clauses, this book not only covers all the basics, but it also offers extensive guidance on complex topics such as set operators and correlated subqueries.

Programmers at all levels will appreciate Kirk Lafler's easy-to-follow examples, clear explanations, and handy tips to extend their knowledge of PROC SQL. This third edition explores new and powerful features in SAS® 9.4, including topics such as: IFC and IFN functions nearest

neighbor processing the HAVING clause indexes It also features two completely new chapters on fuzzy matching and data-driven programming. Delving into the workings of PROC SQL with greater analysis and discussion, PROC SQL: Beyond the Basics Using SAS®, Third Edition, explores this powerful database language using discussion and numerous real-world examples.

Prepare for the SAS Base Programming for SAS 9 exam with the official guide by the SAS Global Certification Program. New and experienced SAS users who want to prepare for the SAS Base Programming for SAS 9 exam will find this guide to be an invaluable, convenient, and comprehensive resource that covers all of the objectives tested on the exam. Now in its fourth edition, the guide has been extensively updated, and revised to streamline explanations. Major topics include importing and exporting raw data files, creating and modifying SAS data sets, and identifying and correcting data syntax and programming logic errors. The chapter quizzes have been thoroughly updated and full solutions are included at the back of the book. In addition, links are provided to the exam objectives, practice exams, and other helpful resources, such as the updated Base SAS glossary and an expanded collection of practice data sets.

Must-have study guide for the SAS® Certified Statistical Business Analyst Using SAS®9: Regression and Modeling exam! Written for both new and experienced SAS programmers, the SAS® Certification Prep Guide: Statistical Business Analysis Using SAS®9 is an in-depth prep guide for the SAS® Certified Statistical Business Analyst Using SAS®9: Regression and

Modeling exam. The authors step through identifying the business question, generating results with SAS, and interpreting the output in a business context. The case study approach uses both real and simulated data to master the content of the certification exam. Each chapter also includes a quiz aimed at testing the reader's comprehension of the material presented. Major topics include: ANOVA Linear Regression Logistic Regression Inputs for Predictive Modeling Model Performance For those new to statistical topics or those needing a review of statistical foundations, this book also serves as an excellent reference guide for understanding descriptive and inferential statistics. Appendices can be found here.

This title serves as the primary documentation for the constraint programming capabilities in SAS/OR software. Experimental in 9.1, the CLP procedure is a finite domain constraint programming solver for solving constraint satisfaction problems (CSPs). The CLP procedure provides you with an expressive syntax with a choice of interfaces for accurate and flexible modeling, linear, logical, global, and scheduling constraints with powerful consistency routines, strategies for selection and assignment of variables and activities, and controls for guiding the search mechanism. This title is also available online. This title serves as a reference guide for users of the constraint programming capabilities in SAS/OR software. Supports releases 9.1 and higher of SAS software.

Prepare for the SAS Base Programming Exam with the only guide authorized by the SAS Certified Professional Program. This handbook helps users increase their credibility as technical professionals, expand their knowledge of SAS

software, and increase their career options and marketability by becoming a globally recognized SAS Certified Professional. Includes a free CD-ROM with tutorials, practice data, and sample programs.

Learn how to read, understand, and write better SAS programs Understand the key differences between similar SAS syntax and programming approaches Save time in writing SAS code with organized summaries of important facts Improve your trouble-shooting skills in common programming and data related problems Reinforce your SAS knowledge with more than 150 technically challenging questions Ideal for intermediate to advanced SAS users, *Sharpening Your SAS Skills* shows how to write and diagnose the most common programming tasks in data access, data management, and data analysis. This book organizes, prioritizes, and compares key facts about SAS for easy usage and reference. It includes SAS version 9.1 features and examples for improving data quality with integrity constraints, generation data sets, and audit trails. Each example will help you better understand the SAS syntax by showing the results expected from the input data and potential errors, notes, or warning messages the program may generate if written incorrectly.

A step-by-step introduction to using SAS® statistical software as a foundational approach to data analysis and interpretation Presenting a straightforward introduction from the ground up, *SAS® Essentials: Mastering SAS for Data Analytics, Second Edition* illustrates SAS using hands-on learning techniques and numerous real-world examples. Keeping different experience levels in mind, the highly-qualified author team has developed the book over 20 years of teaching introductory SAS courses. Divided into two sections, the first part of the book provides an introduction to data manipulation, statistical techniques, and the SAS

programming language. The second section is designed to introduce users to statistical analysis using SAS Procedures. Featuring self-contained chapters to enhance the learning process, the Second Edition also includes: Programming approaches for the most up-to-date version of the SAS platform including information on how to use the SAS University Edition Discussions to illustrate the concepts and highlight key fundamental computational skills that are utilized by business, government, and organizations alike New chapters on reporting results in tables and factor analysis Additional information on the DATA step for data management with an emphasis on importing data from other sources, combining data sets, and data cleaning Updated ANOVA and regression examples as well as other data analysis techniques A companion website with the discussed data sets, additional code, and related PowerPoint® slides SAS Essentials: Mastering SAS for Data Analytics, Second Edition is an ideal textbook for upper-undergraduate and graduate-level courses in statistics, data analytics, applied SAS programming, and statistical computer applications as well as an excellent supplement for statistical methodology courses. The book is an appropriate reference for researchers and academicians who require a basic introduction to SAS for statistical analysis and for preparation for the Basic SAS Certification Exam.

Preparing for the SAS Advanced Programming for SAS 9 Exam just got a little easier! The SAS Certification Kit: Advanced Programming for SAS 9, Third Edition, contains the tools you need to become SAS certified. Included in the kit are the SAS Certification Prep Guide: Advanced Programming for SAS 9, Third Edition, an access code for the SAS Certification Practice Exam: Advanced Programming for SAS 9, and a SAS Advanced Programming for SAS Exam voucher. Access to SAS software is required. Academic

discounts are available for the e-learning practice exam and the exam voucher components of this kit. To see whether you qualify for an academic discount, please visit Certification Discounts at

<http://support.sas.com/certify/discounts/detail.html#acad>. The book can also be purchased separately. Experienced SAS users who want to prepare for this exam will find the SAS Certification Prep Guide: Advanced Programming for SAS 9, Third Edition, to be an invaluable resource that covers all of the objectives on the exam. The text contains quizzes that enable you to test your understanding of material in each chapter. The SAS Certification Practice Exam: Advanced Programming for SAS 9 allows you to practice the skills you mastered in the SAS Certification Prep Guide. When you think you are ready for the exam, you can schedule an appointment to take the SAS Advanced Programming for SAS Exam at a local Prometric testing center

(<http://www.prometric.com/SAS/default.htm>). SAS Products and Releases: Base SAS: 9.3 Operating Systems: All This real-world reference for clinical trial SAS programming is packed with solutions that can be applied day-to-day problems. Organized to reflect the statistical programmers workflow, this user-friendly text begins with an introduction to the working environment, then presents chapters on importing and massaging data into analysis data sets, producing clinical trial output, and exporting data.

Businesses rely on career professionals with strong SAS knowledge and skills. Set yourself apart from the competition by earning the only globally recognized credential endorsed by SAS. The SAS Certification Prep Guide: Advanced Programming for SAS 9, Fourth Edition, prepares you to take the Advanced Programming for SAS 9 exam. Major topics include SQL processing with SAS, the SAS macro language, advanced SAS programming techniques, and optimizing SAS

programs, as well as a new chapter on creating functions with PROC FCMP. You will also become familiar with the enhancements and new functionality that are available in SAS 9. New or experienced SAS users will find this guide to be an invaluable resource that covers the objectives tested on the exam. The text contains quizzes that enable you to test your understanding of material in each chapter. Quiz solutions are included at the end of the book. Candidates must earn the SAS Certified Base Programmer for SAS 9 Credential before taking the SAS Advanced Programming for SAS 9 exam. You'll find instructions on how to obtain sample data when accessing SAS through SAS Enterprise Guide, SAS Studio, SAS University Edition, and the SAS windowing environment. This edition provides significant improvements to numerous examples, making the code even more efficient. Experience is a critical component to becoming a SAS Certified Professional. This comprehensive guide along with training in SAS SQL1, SAS Macro Language 1, and SAS Programming 3 are valuable resources designed to help you prepare for the Advanced SAS Certification exam.

New and experienced SAS users who want to prepare for the Base Programming for SAS 9 exam will find the "SAS Certification Prep Guide" to be an invaluable, convenient, and comprehensive resource that covers all of the objectives tested on the exam. Each chapter includes a quiz on the chapter's contents.

Businesses rely on career professionals with strong SAS knowledge and skills. Set yourself apart from the competition by earning the only globally recognized credential endorsed by SAS. The SAS Certification Prep Guide: Advanced Programming for SAS9, Fourth Edition, prepares you to take the Advanced Programming for SAS 9 exam. Major topics include SQL processing with SAS, the SAS macro language, advanced SAS programming techniques, and optimizing SAS

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Must-have study guide for the SAS Certified Statistical Business Analyst Using SAS9: Regression and Modeling exam! Written for both new and experienced SAS programmers, the SAS Certification Prep Guide: Statistical Business Analysis Using SAS9 is an in-depth prep guide for the SAS Certified Statistical Business Analyst Using SAS9: Regression and Modeling exam.

This indispensable guide focuses on validating programs written to support the clinical trial process from after the data collection stage to generating reports and submitting data and output to the Food and Drug Administration.

This example-driven guide illustrates the application and operation of decision trees in data mining, business intelligence, business analytics, prediction, and knowledge

discovery. It explains in detail the use of decision trees as a data mining technique and how this technique complements and supplements other business intelligence applications. This comprehensive resource provides on-the-job training for statistical programmers who use SAS in the pharmaceutical industry. This one-stop resource offers a complete review of what entry- to intermediate-level statistical programmers need to know in order to help with the analysis and reporting of clinical trial data in the pharmaceutical industry. *SAS Programming in the Pharmaceutical Industry, Second Edition* begins with an introduction to the pharmaceutical industry and the work environment of a statistical programmer. Then it gives a chronological explanation of what you need to know to do the job. It includes information on importing and massaging data into analysis data sets, producing clinical trial output, and exporting data. This edition has been updated for SAS 9.4, and it features new graphics as well as all new examples using CDISC SDTM or ADaM model data structures. Whether you're a novice seeking an introduction to SAS programming in the pharmaceutical industry or a junior-level programmer exploring new approaches to problem solving, this real-world reference guide offers a wealth of practical suggestions to help you sharpen your skills. This book is part of the SAS Press program.

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