

Official Certified Solidworks Associate Cswa Exam Book

if you're looking for an authorized reliable guide to prepare you to pass the certified solidworks associate cswa exam look no further this is the only authorized cswa preparation exam guide on the market today official certified solidworks associate cswa exam guide covers the key topics contained on the exam with the aim of helping readers to master each topic as well as the exam itself the book is more than a collection of practice exam questions because it also devotes attention to the concepts and implementation details that underlie the cswa process providing readers with a thorough and comprehensive foundation in solidworks each chapter includes specially crafted features that introduce key cswa exam topics explain them in detail give the reader an opportunity to apply them in short tutorials and identify areas of weakness ideal for anyone with a basic knowledge of solidworks and engineering fundamentals this book will help you get the certification you need to land the best jobs get the best promotions and become a successful professional contents chapter 1 basic theory and drawing theory chapter 2 part modeling chapter 3 advanced part modeling chapter 4 assembly modeling chapter 5 advanced modeling theory and analysis

most cad professionals today recognize the need to become certified to prove their skills prepare for new job searches and to learn new skills while at their existing job specifying a certified solidworks associate cswa certification on your resume is a great way to increase your chances of landing a new job getting a promotion or looking more qualified when representing your company on a consulting job the primary goal of this book is not only to help you pass the cswa exam but also to ensure that you understand and comprehend the concepts and implementation details of the cswa process the second goal is to provide the most comprehensive coverage of cswa exam related topics available without too much coverage of topics not on the exam the third and ultimate goal is to get you from where you are today to the point that you can confidently pass the cswa exam ds solidworks corp offers various stages of certification each stage represents increasing levels of

expertise in 3d cad design as it applies to engineering certified solidworks associate cswa certified solidworks professional csdp and certified solidworks expert cswe along with specialty fields in simulation sheet metal and surfacing the cswa certification indicates a foundation in and apprentice knowledge of 3d cad design and engineering practices and principles the main requirement for obtaining the cswa certification is to take and pass the on line proctored 180 minute exam minimum of 165 out of 240 points the new cswa exam consists of fourteen questions in five categories passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification standard

the official guide to certified solidworks associate exams cswa csda and cswsa fea is written to assist the solidworks user to pass the associate level exams information is provided to aid a person to pass the certified solidworks associate cswa certified sustainable design associate csda and the certified solidworks simulation associate finite element analysis cswsa fea exams there are three goals for this book the primary goal is not only to help you pass the cswa csda and cswsa fea exams but also to ensure that you understand and comprehend the concepts and implementation details of the three certification processes the second goal is to provide the most comprehensive coverage of cswa csda and cswsa fea exam related topics available without too much coverage of topics not on the exam the third and ultimate goal is to get you from where you are today to the point that you can confidently pass the cswa csda and the cswsa fea exam the certified solidworks associate cswa certification indicates a foundation in and apprentice knowledge of 3d cad design and engineering practices and principles passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification standard the certified sustainable design associate csda certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design the certified solidworks simulation associate finite element analysis cswsa fea certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and finite element analysis solidworks 2012 or higher is required to take the exam cswa exam audience the intended audience for this book trying to take and pass the cswa exam is anyone with a minimum of 6 9 months of solidworks experience and basic knowledge of engineering fundamentals and practices solidworks recommends that you review their solidworks tutorials on parts assemblies drawings as a prerequisite and have at least 45 hours of classroom time learning solidworks or using solidworks with basic engineering design principles and practices csda exam audience the intended audience for this book trying to take and pass the csda exam is anyone interested in sustainable design and life cycle assessment although no hands on usage of solidworks is required for the csda certification exam it is a good idea to review the solidworks sustainabilityexpress

and solidworks sustainability tutorials inside of solidworks to better understand the actual workflow cswsa fea exam audience the intended audience for this book trying to take and pass the cswsa fea exam is anyone with a minimum of 6 9 months of solidworks experience and knowledge in the following areas engineering mechanics statics strength of materials finite element method finite element analysis theory applied concepts in solidworks simulation namely static analysis solid shell and beam elements connections and applying loads and boundary conditions and interpreting results the purpose of this section in the book is not to educate a new or intermediate user on solidworks simulation but to cover and to inform you on the required understanding types of questions layout and what to expect when taking the cswsa fea exam

the official guide to certified solidworks associate exams cswa csda cswsa fea is written to assist the solidworks user to pass the associate level exams information is provided to aid a person to pass the certified solidworks associate cswa certified sustainable design associate csda and the certified solidworks simulation associate finite element analysis cswsa fea exams there are three goals for this book the primary goal is not only to help you pass the cswa csda and cswsa fea exams but also to ensure that you understand and comprehend the concepts and implementation details of the three certification processes the second goal is to provide the most comprehensive coverage of cswa csda and cswsa fea exam related topics available without too much coverage of topics not on the exam the third and ultimate goal is to get you from where you are today to the point that you can confidently pass the cswa csda and the cswsa fea exam the certified solidworks associate cswa certification indicates a foundation in and apprentice knowledge of 3d cad design and engineering practices and principles passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification standard the certified sustainable design associate csda certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design the certified solidworks simulation associate finite element analysis cswsa fea certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and finite element analysis solidworks 2012 or higher is required to take the exam

thoroughly prepares you for the cswa cswa sd cswa s and cswa am exams created in collaboration with the certification team at solidworks intended for anyone with 6 9 months of solidworks experience contains over 250 practice questions and examples as well as exam prep to help you get certified on your first try helps open doors to educational and career opportunities get hired and prepare for the demands of a job this edition covers additional material on the 3dexperince platform

certification exams created in collaboration with the solidworks certification team the official guide to certified solidworks associate exams cswa cswa sd cswa s cswa am provides the most comprehensive coverage of solidworks associate exam related topics available this book is tailored for those with 6 9 months solidworks experience and basic knowledge of engineering fundamentals and practices a range of tutorials tips and over 250 examples and practice questions help you properly prepare for the exams chapters emphasize the most important information without too much coverage of topics not on the exams aligned with each of the exams the chapters explain implementation details of the four certification processes and what to expect when taking the exams from exam and question layout to question types and grading procedure for instructors guides are available to manage exam credits and student accounts the importance of solidworks certification cannot be overstated certification helps open doors to educational and career opportunities get hired and prepare for the demands of a job certification is a verifiable way to showcase students abilities and prove their skillset with an obligatory waiting period of at least two weeks between exam attempts it is advantageous for students to pass the cswa cswa sd cswa s cswa am exams the first time around the official guide to certified solidworks associate exams gets you from where you are today to the point that you can confidently pass the cswa cswa sd cswa s and cswa am exams at the outset saving time and money and giving you a springboard for your career cswa exam the cswa certification indicates a foundation in and apprentice knowledge of 3d cad design and engineering practices and principles the intended audience for this section of the book is anyone trying to take and pass the cswa exam with a minimum of 6 9 months of solidworks experience and basic knowledge of engineering fundamentals and practices solidworks recommends that you review their solidworks tutorials on parts assemblies and drawings as a prerequisite and have at least 45 hours of classroom time learning solidworks or using solidworks with basic engineering design principles and practices cswa sd exam the certified solidworks associate sustainable design cswa sd certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design this section of the book is intended for anyone interested in sustainable design as well as life cycle assessment and trying to take and pass the cswa sd exam although no hands on usage of solidworks is required for the cswa sd certification exam it is a good idea to review the solidworks sustainabilityxpress and solidworks sustainability tutorials inside of solidworks to better understand the actual workflow the cswa sd is based off the solidworks sustainable design guide that incorporates concepts including sustainability environmental assessment and life cycle impact assessment cswa s exam the certified solidworks associate simulation cswa s certification indicates a foundation in and apprentice knowledge of the principles of stress analysis and the finite element method fem the cswa s section of the book is for anyone trying to take and pass the cswa s with

a minimum of 6 9 months of solidworks experience and knowledge in the following areas engineering mechanics statics strength of materials finite element method finite element analysis theory applied concepts in solidworks simulation namely static analysis solid shell and beam elements connections and applying loads and boundary conditions and interpreting results the purpose of this section in the book is not to educate a new or intermediate user on solidworks simulation but to cover the types of questions layout and what to expect when taking the cswa s exam cswa am exam the certified solidworks associate additive manufacturing cswa am certification indicates a foundation in and apprentice knowledge of today s 3d printing technology and market the intended audience for this section of the book is anyone trying to take and pass the cswa am exam or anyone with an interest in additive manufacturing the cswa am exam is meant to be taken after the completion of the 10 part learning path located on mysolidworks com the cswa am exam fundamentally covers two 3d printing technologies fused filament fabrication fff and stereolithography sla there are a few questions on selective laser sintering sls technology and available software based printing aids

this book is written to assist you with passing the solidworks associate level exams it provides you with detailed information and exercises that will aid you in passing the following exams certified solidworks associate cswa certified solidworks associate sustainable design cswa sd certified solidworks associate simulation cswa s and the certified solidworks associate additive manufacturing cswa am exam there are three goals for this book the primary goal of this book is not only to help you pass the cswa cswa sd cswa s and cswa am exams but also to ensure that you understand and comprehend the concepts and implementation details of the four certification processes the second goal is to provide the most comprehensive coverage of cswa cswa sd cswa s and cswa am exam related topics available without too much coverage of topics not on the exam the third and ultimate goal is to get you from where you are today to the point that you can confidently pass the cswa cswa sd cswa s and cswa am exams cswa exam the cswa certification indicates a foundation in and apprentice knowledge of 3d cad design and engineering practices and principles the intended audience for this section of the book is anyone trying to take and pass the cswa exam with a minimum of 6 9 months of solidworks experience and basic knowledge of engineering fundamentals and practices solidworks recommends that you review their solidworks tutorials on parts assemblies and drawings as a prerequisite and have at least 45 hours of classroom time learning solidworks or using solidworks with basic engineering design principles and practices cswa sd exam the certified solidworks associate sustainable design cswa sd certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design this section of the book is intended for anyone interested in sustainable design as well as life cycle assessment and trying to take and pass the cswa sd exam although no hands on usage of solidworks is

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a comprehensive introduction to solidworks using tutorial style step by step instructions designed for beginning or intermediate solidworks users learn to create parts and assemblies using machined plastic and sheet metal components also covers simulation sustainability and intelligent modeling techniques includes bonus chapters on the cswa exam and 3d printing this edition features a new chapter and a bonus ebook on solidworks and the 3dexperience platform are you looking to learn solidworks as luck would have it you have found the perfect solidworks resource for students designers engineers and professionals alike engineering design with solidworks 2024 provides a solid foundation in solidworks by using projects with step by step instructions that are perfect for both beginners and intermediate users each project begins with desired outcomes and usage competencies so you ll know exactly what you ll learn and how to apply it projects build your skills incrementally throughout the book you ll learn to create machined plastic and sheet metal components explore the solidworks user interface commandmanager and document and system properties you ll discover how to design simple and complex parts and assemblies with proper design intent you ll also explore how to use

the solidworks toolbox and symmetry patterns and configurations to edit and reuse features and parts like the pros do and that's just the first six projects next you'll investigate top down assembly modeling develop components in context with inplace mates convert a solid part into sheet metal and insert and apply sheet metal features with projects 8 and 9 you'll learn how to apply intelligent modeling techniques to a sketch feature or any solidworks creation prepare for the solidworks simulation associate finite element analysis cswsa fea exam with an overview of solidworks simulation important concepts and practice exam questions plus bonus material in projects 10 and 11 describes the differences between additive and subtractive manufacturing and everything you need to know about 3d printing and the certified solidworks associate exam cswa you will be delighted to find this is not just a dry technical manual the realistic project scenarios were created with the author's industry expertise and input of engineers department managers vendors and manufacturers who use solidworks every day whether you're looking to enhance your career or simply want to expand your knowledge of solidworks engineering design with solidworks 2024 is the ideal resource for you includes a bonus ebook covering solidworks and 3dexperience platform included with your purchase of this book is a bonus ebook titled solidworks and the 3dexperience platform this ebook is an insightful guide that introduces you to the 3dexperience platform and its integration with solidworks this resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the solidworks task pane the book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using solidworks with the 3dexperience platform this guide will help you understand the 3dexperience platform's capabilities demonstrating practical real world applications in educational and professional settings it's an essential resource for anyone looking to leverage the full potential of solidworks in conjunction with the 3dexperience platform

a comprehensive introduction to solidworks using tutorial style step by step instructions designed for beginning or intermediate solidworks users learn to create parts and assemblies using machined plastic and sheet metal components also covers simulation sustainability and intelligent modeling techniques includes bonus chapters on the cswa exam and 3d printing engineering design with solidworks 2023 is written to assist students designers engineers and professionals the book provides a solid foundation in solidworks by utilizing projects with step by step instructions for the beginner to intermediate solidworks user featuring machined plastic and sheet metal components desired outcomes and usage competencies are listed for each project the book is divided into five sections with 11 projects project 1 project 6 explore the solidworks user interface and commandmanager document and system properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings boms and revision tables using basic and advanced features additional techniques include

the edit and reuse of features parts and assemblies through symmetry patterns configurations solidworks 3d contentcentral and the solidworks toolbox project 7 understand top down assembly modeling and sheet metal parts develop components in context with inplace mates along with the ability to import parts using the top down assembly method convert a solid part into a sheet metal part and insert and apply various sheet metal features project 8 project 9 recognize solidworks simulation and intelligent modeling techniques understand a general overview of solidworks simulation and the type of questions that are on the solidworks simulation associate finite element analysis cswsa fea exam apply design intent and intelligent modeling techniques in a sketch feature part plane assembly and drawing project 10 comprehend the differences between additive and subtractive manufacturing understand 3d printer terminology along with a working knowledge of preparing saving and printing cad models on a low cost printer project 11 review the certified solidworks associate cswa program understand the curriculum and categories of the cswa exam and the required model knowledge needed to successfully take the exam the author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers these professionals are directly involved with solidworks every day their responsibilities go far beyond the creation of just a 3d model

engineering graphics with solidworks 2013 and video instruction dvd is written to assist technical school two year college four year university instructor student or industry professional that is a beginner or intermediate solidworks user the book combines the fundamentals of engineering graphics and dimensioning practices with a step by step project based approach to learning solidworks with the enclosed 1 5 hour video instruction dvd learn by doing not just by reading the book is divided into two parts engineering graphics and solidworks 3d cad software in chapter 1 through chapter 3 you explore the history of engineering graphics manual sketching techniques orthographic projection isometric projection multi view drawings dimensioning practices and the history of cad leading to the development of solidworks in chapter 4 through chapter 8 you apply engineering graphics fundamentals and learn the solidworks user interface document and system properties simple parts simple and complex assemblies design tables configurations multi sheet multi view drawings bill of materials revision tables basic and advanced features follow the step by step instructions in over 70 activities to develop eight parts four sub assemblies three drawings and six document templates formulate the skills to create and modify solid features to model a 3d flashlight assembly chapter 9 provides a bonus section on the certified solidworks associate cswa program with sample exam questions and initial and final solidworks models passing the cswa exam proves to employers that you have the necessary fundamental engineering graphics and solidworks competencies review individual features commands and tools for each project with the book s 1 5 hour video instruction dvd

and solidworks help the chapter exercises analyze and examine usage competencies based on the project objectives the book is designed to complement the solidworks tutorials located in the solidworks help menu each section explores the solidworks online user s guide to build your working knowledge of solidworks desired outcomes and usage competencies are listed for each project know your objectives up front follow the step by step procedures to achieve your design goals work between multiple documents features commands and properties that represent how engineers and designers utilize solidworks in industry the authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers these professionals are directly involved with solidworks every day their responsibilities go far beyond the creation of just a 3d model

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enhance your career or simply want to expand your knowledge of solidworks engineering design with solidworks 2025 is the ideal resource for you includes a bonus ebook covering solidworks and 3dexperience platform included with your purchase of this book is a bonus ebook titled solidworks and the 3dexperience platform this ebook is an insightful guide that introduces you to the 3dexperience platform and its integration with solidworks this resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the solidworks task pane the book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using solidworks with the 3dexperience platform this guide will help you understand the 3dexperience platform s capabilities demonstrating practical real world applications in educational and professional settings it s an essential resource for anyone looking to leverage the full potential of solidworks in conjunction with the 3dexperience platform table of contents introduction 1 overview of solidworks and the user interface 2 fundamentals of part modeling 3 fundamentals of assembly modeling 4 fundamentals of drawing 5 extrude and revolve features 6 swept lofted and additional features 7 top down assembly modeling and sheet metal parts 8 solidworks simulation 9 solidworks and the 3dexperience platform appendix glossary index bonus chapters 10 additive manufacturing 3d printing 11 introduction to the certified associate mechanical design cswa exam

assembly modeling with solidworks 2012 is written to assist the beginning solidworks user with a few months of design experience to the intermediate solidworks user who desires to enhance their skill sets in assembly modeling the book provides a solid foundation in assembly modeling using competency based projects in step by step instructions the book provides examples to start a solidworks session and to understand the following interfaces menu bar toolbar menu bar menu drop down menus context toolbars consolidated drop down toolbars system feedback icons confirmation corner heads up view toolbar commandmanager and more set system options and document properties as they apply to a part and assembly template create new solidworks folder locations document templates reference documents and design library download components from 3d contentcentral and rename and save components using solidworks explorer apply the bottom up assembly approach with two levels of configurations using the configure component tool the configure dimension tool design tables and the add configuration tool create new parts based on component features utilizing the bottom up assembly approach apply standard mates smartmates and the design library toolbox apply the top down assembly approach with two levels of configurations with in context components understand the following out of context components external references inplace mates redefining and replacing components and motion studies apply the derived feature component pattern tool linear component pattern tool and the mirror component tool along with the explode line sketch tool create a multi sheet multi view assembly drawing knowledge of custom properties in a part

assembly and linked notes with the ability to incorporate configurations of an exploded view bill of materials revision tables and more address the layout based assembly approach and global variables and equations to control relationships each chapter begins with the desired outcomes and usage competencies explore assembly modeling techniques through a series of design situations industry scenarios projects and objectives chapter 9 provides a bonus section on the certified solidworks associate cswa program with sample exam questions and initial and final solidworks models passing the cswa exam proves to employers that you have the necessary fundamental engineering graphics and solidworks competencies the book compliments and enhances the solidworks tutorials although over 150 solidworks tools and commands are utilized in assembly modeling with solidworks 2012 the book is not a reference guide the book is a self paced tutorial in a realistic design setting complex models expose you to large assembly modeling techniques you focus on the design process while learning the commands relative to assemblies to obtain the most from this text you should be familiar with the solidworks user interface or other parametric modeling software application your skill sets should include the ability to create simple parts assemblies and drawings and manipulate documents through the windows operating system the authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers these professionals are directly involved with solidworks everyday they create assemblies with thousands of components and drawings with hundreds of sheets their responsibilities go far beyond the creation of just a 3d model

engineering graphics with solidworks 2012 and video instruction dvd is written to assist technical school two year college four year university instructor student or industry professional that is a beginner or intermediate solidworks user the book combines the fundamentals of engineering graphics and dimensioning practices with a step by step project based approach to learning solidworks with the enclosed 1 5 hour video instruction dvd learn by doing not just by reading the book is divided into two parts engineering graphics and solidworks 3d cad software in chapter 1 through chapter 3 you explore the history of engineering graphics manual sketching techniques orthographic projection isometric projection multi view drawings dimensioning practices and the history of cad leading to the development of solidworks in chapter 4 through chapter 8 you apply engineering graphics fundamentals and learn the solidworks user interface document and system properties simple parts simple and complex assemblies design tables configurations multi sheet multi view drawings bill of materials revision tables basic and advanced features follow the step by step instructions in over 70 activities to develop eight parts four sub assemblies three drawings and six document templates formulate the skills to create and modify solid features to model a 3d flashlight assembly chapter 9 provides a bonus section on the certified solidworks associate cswa program

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introduces you to the basics of solidworks in five easy lessons concentrates on areas where new users can improve efficiency in the design modeling process develops a stirling engine throughout the book perfectly suited for schools including cad as part of a broader course includes bonus chapters on the cswa exam and 3d printing features a bonus ebook on solidworks and the 3dexperience platform the perfect companion for anyone who wants to learn solidworks quickly and effectively solidworks 2025 quick start acquaints you with the basics of solidworks 3d cad software in five easy lessons this book is ideal for students designers and engineers who want to jump into solidworks unleash their creativity and take their design skills to the next level today written by an experienced solidworks instructor solidworks 2025 quick start is packed with tips and tricks that help new users streamline their design modeling process to make it efficient and organized you ll gain the most knowledge in the shortest period of time by learning proper solidworks skills and file management techniques right from the start get up to speed with an overview of the software s user interface menus toolbars and commands at a brisk pace from there you will learn 2d sketching part and assembly creation motion study detailed part and assembly drawings and boms using basic and advanced features you will also develop a mini stirling engine and investigate the proper design intent and constraints putting your newfound skills to the test two bonus chapters round out your newfound solidworks knowledge chapter six reviews the certified solidworks associate cswa exam curriculum and model knowledge requirements chapter seven introduces you to additive manufacturing 3d printing covering the difference between additive and subtractive manufacturing 3d printer terminology and how to prepare save and print a model on a fused filament fabrication 3d printer whether you re an engineer preparing for your company s next project or a student who needs to learn solidworks quickly without taking a

comprehensive cad course with solidworks 2025 quick start you will unlock your potential as a designer and master the software in no time includes a bonus ebook covering solidworks and 3dexperience platform included with your purchase of this book is a bonus ebook titled solidworks and the 3dexperience platform this ebook is an insightful guide that introduces you to the 3dexperience platform and its integration with solidworks this resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the solidworks task pane the book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using solidworks with the 3dexperience platform this guide will help you understand the 3dexperience platform's capabilities demonstrating practical real world applications in educational and professional settings it's an essential resource for anyone looking to leverage the full potential of solidworks in conjunction with the 3dexperience platform table of contents 1 overview of solidworks and the user interface 2 2d sketching features and parts 3 assembly modeling bottom up method 4 design modifications 5 drawing and dimensioning fundamentals appendix glossary index exclusive bonus chapters 6 solidworks cad design associate cswa exam 7 additive manufacturing

this book is written to assist you with passing the solidworks associate level exams it provides you with detailed information and exercises that will aid you in passing the following exams certified solidworks associate cswa certified solidworks associate sustainable design cswa sd certified solidworks simulation associate finite element analysis cswsa fea and the certified solidworks associate additive manufacturing cswa am exam there are three goals for this book the primary goal of this book is not only to help you pass the cswa cswa sd cswsa fea and cswa am exams but also to ensure that you understand and comprehend the concepts and implementation details of the four certification processes the second goal is to provide the most comprehensive coverage of cswa cswa sd cswsa fea and cswa am exam related topics available without too much coverage of topics not on the exam the third and ultimate goal is to get you from where you are today to the point that you can confidently pass the cswa cswa sd cswsa fea and cswa am exams

drawing and detailing with solidworks 2012 is written to educate and assist students designers engineers and professionals in the drawing and detailing tools of solidworks explore the learning process through a series of design situations industry scenarios projects and objectives target towards the beginning to intermediate solidworks user work through numerous activities to create multiple view multiple sheet detailed drawings and assembly drawings develop drawing templates sheet formats and custom properties construct drawings that incorporate part configurations assembly configurations and design tables with equations manipulate

annotations in parts drawings assemblies revision tables bills of materials and more apply your drawing and detailing knowledge to over thirty exercises the exercises test your usage competency as well as explore additional topics with industry examples advanced exercises require the ability to create parts and assemblies drawing and detailing with solidworks 2012 is not a reference book for all drafting and drawing techniques and tools the book provides information and examples in the following areas history of engineering graphics manual sketching techniques orthographic projection isometric projection multi view drawings dimensioning practices fasteners in general tolerance and fit and the history of cad leading to the development of solidworks start a solidworks 2012 session and to understand the following interfaces menu bar toolbar menu bar menu drop down menus context toolbars consolidated drop down toolbars system feedback icons confirmation corner heads up view toolbar document properties and more apply document properties to reflect the asme y14 engineering drawing and related drawing practices import an autocad file as a sheet format insert solidworks system properties and custom properties create new solidworks document tabs create multi sheet drawings from various part configurations and develop the following drawing views standard isometric auxiliary section broken section detail half section cut away crop projected back with a bill of materials and a revision table and revisions insert and edit dimensions feature control frames datums geometric tolerancing surface finishes and weld symbols using dimxpert and manual techniques create apply and save blocks and parametric notes in a drawing chapter 10 provides a bonus section on the certified solidworks associate cswa program with sample exam questions and initial and final solidworks models the book is designed to compliment the solidworks users guide solidworks reference guide standards engineering drawing design and graphics communications reference books the authors recognize that companies utilize additional drawing standards the authors developed the industry scenarios by combining industry experience with their knowledge of engineers sales vendors and manufacturers these professionals are directly involved with solidworks everyday their work goes far beyond a simple drawing with a few dimensions they create detailed drawings assembly drawings marketing drawings and customer drawings solidworks users work between drawings parts assemblies and many other documents to complete a project on time

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in this certified solidworks associate cswa exam preparation training course expert author dean kerste will teach you everything you need to know to successfully complete the exam and become a certified solidworks associate this course is designed for users that already have a fundamental understanding of solidworks you will start by learning about the certification such as what s covered on the exam hardware and software requirements and how to purchase the exam dean will then teach you about basic intermediate and advanced part modeling and modification including creating cylinders create and revolving the sketch profile and creating the extruded part this video tutorial will also cover assembly modeling and drawing competencies finally you will learn how to access the certificate and prepare to take the exam resource description page

solidworks 2007 tutorial was written to assist students designers engineers and professionals the book provides an introduction to the user interface menus toolbars concepts and modeling techniques of solidworks to create parts assemblies and drawings follow the step by step instructions and develop multiple assemblies that combine over 80 extruded machined parts and components formulate the skills to create modify and edit sketches and solid features learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables and configurations review 2 hours of flash movie files that follow the steps in the book desired outcomes and usage competencies are listed for each project know your objective up front follow the steps in project 1 through project 4 to achieve your design goals work between multiple documents features commands and custom properties that represent how engineers and designers utilize solidworks in industry table of contents introduction 1 linkage assembly 2 front support assembly 3 fundamentals of drawing 4 pneumatic test module assembly appendix index

this book along with the companion disc that accompanies it will provide you with a wealth of information about the three segments of the csdp core exam the intended audience for this book is a person who has passed the cswa exam and who has eight or more months of solidworks training and usage this guide is not

intended to teach you how to use solidworks but is written to provide you with cswp exam tips hints and information on sample questions and categories that are aligned with the exam this guide is written to help you take and pass the cswp exam this book comes with a companion dvd containing segment videos for you to follow while you use the book each segment video provides valuable information tips and tricks to successfully pass the cswp core exam solidworks model files in both their initial and final state are provided on this dvd for both solidworks 2012 and 2013 the book is organized into three chapters each chapter is focused on a segment of the cswp core exam this is not intended to be a step by step book

this book will provide you with a wealth of information about the three segments of the cswp core exam the intended audience for this book is a person who has passed the cswa exam and who has eight or more months of solidworks training and usage this guide is not intended to teach you how to use solidworks but is written to provide you with cswp exam tips hints and information on sample questions and categories that are aligned with the exam this guide is written to help you take and pass the cswp exam the book is organized into three chapters each chapter is focused on a segment of the cswp core exam this is not intended to be a step by step book goals of this book the primary goal is not only to help you pass the cswp core exam but also to ensure that you understand and comprehend the concepts and implementation details of the process the second goal is to provide the most comprehensive coverage of cswp core exam related topics available without too much coverage of topics not on the exam the third and ultimate goal is to get you from where you are today to the point that you can confidently pass all three segments of the cswp core exam who this book is for the intended audience for this book and the cswp exam is a person who has passed the cswa exam and who has eight or more months of solidworks training and usage however passing the cswa exam is not a prerequisite for taking the cswp exam if you are a commercial user in industry for students that take the cswp exam through their school you must first pass the cswa exam

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