

cswp exam guide

CSWP Exam Guide: Mastering the Certified SOLIDWORKS Professional Certification

cswp exam guide is an essential resource for anyone aiming to prove their advanced skills in SOLIDWORKS, one of the most widely used 3D CAD software platforms in engineering and design industries. Whether you are a mechanical engineer, product designer, or CAD professional, obtaining the Certified SOLIDWORKS Professional (CSWP) credential can significantly boost your career prospects by validating your expertise in creating complex models and assemblies.

If you're preparing to take the CSWP exam, understanding the structure, content, and best study practices is crucial. This guide breaks down everything you need to know—from exam format and key topics to practical tips for acing the test. Along the way, we'll also weave in useful pointers about SOLIDWORKS features, modeling techniques, and troubleshooting strategies that align with the exam's objectives.

What is the CSWP Exam?

The CSWP exam is a professional-level certification designed to assess your ability to design and analyze parametric parts and assemblies using SOLIDWORKS. It goes beyond basic modeling, challenging candidates to demonstrate proficiency in complex geometry, feature manipulation, and engineering principles.

Unlike entry-level certifications, the CSWP requires candidates to complete a series of timed online exams that test real-world problem-solving skills. Passing this exam signals to employers and clients that you have a solid grasp of SOLIDWORKS tools and can efficiently tackle advanced CAD tasks.

Exam Structure and Format

The CSWP exam consists of three segments, each focusing on different aspects of modeling and assembly:

1. **Part 1: Part Creation** – You will be given engineering drawings and must create parts meeting specified dimensions and features.
2. **Part 2: Advanced Part Creation** – More complex parts involving configurations, advanced features, and design intent.

3. **Part 3: Assembly Creation** – Combine multiple parts into an assembly and demonstrate understanding of mates, motion, and interference detection.

Each segment is timed, typically giving you about 40 minutes per section. The exam is conducted online through a secure platform, and you must complete all parts in a single sitting.

Key Topics Covered in the CSWP Exam

Preparing for the CSWP requires a strong grasp of various SOLIDWORKS functionalities and engineering concepts. Here are some core topics you should be comfortable with:

Parametric Modeling and Feature Management

Understanding how to create and manage parametric features is fundamental. This includes:

- Sketching with constraints and dimensions
- Using features like extrude, revolve, loft, and sweep
- Editing feature trees and managing parent-child relationships
- Applying geometric relations and design intent

Mastering these concepts ensures you can quickly modify parts without breaking the model, a skill essential for passing the exam.

Configurations and Design Tables

The CSWP exam often tests your ability to create multiple versions of a part using configurations. You should be familiar with:

- Setting up configurations for different sizes or features
- Using design tables to automate configuration changes
- Understanding when to use configurations versus separate files

Configurations demonstrate your proficiency in creating flexible designs that accommodate various requirements efficiently.

Assembly Modeling and Mates

The assembly section evaluates your skills in combining parts into functional units. Key skills include:

- Applying different mate types such as coincident, concentric, and distance mates
- Understanding advanced mates like limit and mechanical mates
- Checking for interferences and resolving conflicts
- Using sub-assemblies and managing assembly structure

Effective assembly modeling is critical for simulating real-world mechanisms, a common requirement in professional engineering projects.

Engineering Calculations and Measurements

Apart from modeling, you need to demonstrate your ability to perform measurements and basic engineering calculations within SOLIDWORKS. This includes:

- Using the Measure tool for distances, angles, and mass properties
- Understanding tolerances and dimensioning principles
- Applying equations and global variables for design automation

Having a solid foundation in these areas shows that you can create models that not only look correct but also meet engineering standards.

Effective Study Strategies for the CSWP Exam

Passing the CSWP exam requires more than just memorizing commands; it demands practical skills and strategic preparation. Here are some tips to help you

prepare effectively:

Hands-On Practice with Realistic Projects

One of the best ways to prepare is by working on projects that mimic the complexity and constraints of the exam. Try to recreate parts and assemblies from scratch using engineering drawings or online resources. This will improve your speed and accuracy under time pressure.

Utilize Official SOLIDWORKS Training Materials

SOLIDWORKS provides official training courses and textbooks tailored to the CSWP exam. These materials are designed to cover exam-relevant content and often include practice exercises and sample questions.

Join Online Communities and Forums

Engaging with communities like the SOLIDWORKS forums, Reddit's r/SOLIDWORKS, or LinkedIn groups can provide valuable insights and tips from other candidates who have taken the exam. You can learn from their experiences, clarify doubts, and get motivation throughout your preparation.

Take Practice Exams Under Timed Conditions

Familiarize yourself with the exam format by taking timed practice tests. This helps reduce anxiety and improves time management skills, ensuring you can complete the exam within the allotted time.

Focus on Weak Areas

After taking practice tests, identify topics where you struggle and concentrate your efforts there. Whether it's assembly mates, configurations, or sketch relations, targeted practice can greatly improve your overall score.

Technical Tips to Excel During the Exam

The CSWP exam is not just about knowledge; it tests your ability to efficiently use the SOLIDWORKS interface and tools. Here are some technical

tips to keep in mind:

Master Keyboard Shortcuts

Knowing shortcuts for common commands like extrude, revolve, and mate can save precious minutes. Customize your shortcuts beforehand and practice using them regularly.

Stay Organized with FeatureManager Design Tree

Keep your feature tree neat and logically ordered. Avoid unnecessary sketches or redundant features that can complicate editing later.

Save Frequently and Use Undo

Although the exam environment is controlled, it's good practice to save your work regularly. Use the undo function to quickly fix mistakes without losing progress.

Read Instructions Carefully

Pay close attention to the exam's engineering drawings and instructions. Sometimes small details like specific dimensions or tolerances can make a big difference in scoring.

Check Your Work Thoroughly

Before submitting each section, double-check dimensions, mates, and configurations. Use SOLIDWORKS evaluation tools like interference detection and measure to validate your models.

Beyond the Exam: Leveraging Your CSWP Certification

Earning the CSWP certification is a significant professional milestone. It demonstrates your commitment to mastering SOLIDWORKS and opens doors to career advancement, higher salaries, and opportunities in design and manufacturing sectors.

Many employers recognize CSWP holders as reliable and proficient CAD professionals capable of handling complex projects independently. Additionally, the skills you develop while preparing for the exam enhance your overall design efficiency, creativity, and problem-solving abilities.

For those interested in further specialization, SOLIDWORKS offers advanced certifications such as Certified SOLIDWORKS Expert (CSWE) or certifications focused on Simulation and Sheet Metal design. The CSWP serves as a strong foundation for these paths.

Embarking on the CSWP certification journey may seem daunting at first, but with a clear study plan, consistent practice, and strategic preparation, you can confidently conquer the exam. Embrace the challenge as an opportunity to deepen your SOLIDWORKS expertise and elevate your professional profile in the competitive world of CAD design.

Frequently Asked Questions

What is the CSWP exam?

The CSWP (Certified SOLIDWORKS Professional) exam is a certification test designed to validate advanced skills in using SOLIDWORKS for 3D design and modeling.

How can I prepare for the CSWP exam?

To prepare for the CSWP exam, review the official CSWP exam guide, practice with SOLIDWORKS software extensively, take online courses, and work through sample exam questions and exercises.

What topics are covered in the CSWP exam guide?

The CSWP exam guide covers topics such as part modeling, assemblies, configurations, advanced feature creation, and understanding engineering drawings within SOLIDWORKS.

Are there any prerequisites for taking the CSWP exam?

While there are no formal prerequisites, it is recommended to have a good understanding of SOLIDWORKS basics and to have passed the CSWA (Certified SOLIDWORKS Associate) exam before attempting the CSWP exam.

Where can I find official CSWP exam guides and resources?

Official CSWP exam guides and resources can be found on the Dassault Systèmes SOLIDWORKS certification website and through authorized SOLIDWORKS training providers.

How long is the CSWP exam and what is the passing score?

The CSWP exam typically lasts about 3 hours and requires a passing score of around 70% or higher, depending on the specific exam version and certification standards.

Additional Resources

CSWP Exam Guide: Navigating the Path to Certified SolidWorks Professional Success

cswp exam guide serves as an essential roadmap for engineers, designers, and CAD professionals aiming to validate their proficiency in SolidWorks, one of the industry's leading 3D CAD software platforms. As the Certified SolidWorks Professional (CSWP) credential gains recognition worldwide, understanding the exam's structure, content, and preparation strategies becomes crucial for candidates seeking to elevate their career prospects and technical credibility.

The CSWP certification is designed to evaluate a candidate's ability to build complex parts and assemblies, interpret engineering drawings, and apply SolidWorks features effectively in real-world scenarios. Unlike entry-level certifications, the CSWP exam demands a deeper comprehension of parametric modeling, advanced feature manipulation, and problem-solving skills. This comprehensive guide delves into the nuances of the CSWP exam, highlighting preparation techniques, exam format, and valuable insights to help aspirants achieve certification success.

Understanding the CSWP Exam Structure

The CSWP exam is divided into multiple segments, each testing different aspects of SolidWorks proficiency. Candidates must complete the exam within a specified time frame, typically three hours, spread across three sections. These sections usually involve:

1. **Part 1: Creating a Single Part** – Candidates are required to build a complex part from scratch using detailed specifications and sketches.

2. **Part 2: Modifying an Existing Part** – This section tests the ability to alter and enhance a given model, often involving advanced features like lofts, sweeps, or configurations.
3. **Part 3: Assembly and Drawing Creation** – Candidates must assemble multiple parts accurately and generate associated 2D drawings conforming to industry standards.

Each part of the exam assesses practical knowledge and efficiency in using SolidWorks tools, with a focus on precision and adherence to design intent.

Exam Format and Delivery

The CSWP exam is conducted online and monitored remotely, providing flexibility for candidates worldwide. The interface presents step-by-step instructions, and candidates work within the SolidWorks environment without external resources or assistance. The exam is time-sensitive, requiring strong time management skills alongside technical expertise.

Key Topics Covered in the CSWP Exam

Preparation for the CSWP exam involves mastering an array of topics integral to professional CAD modeling. Among the most emphasized areas are:

- **Parametric Modeling:** Understanding how to create and manipulate parametric features to maintain design intent.
- **Feature-Based Design:** Using features such as extrudes, cuts, fillets, chamfers, and patterns effectively.
- **Configurations and Design Tables:** Creating part variations and managing multiple configurations within a single model.
- **Assemblies and Mates:** Building complex assemblies by applying appropriate mate types and constraints.
- **Engineering Drawings:** Generating accurate and standards-compliant 2D drawings, including dimensions, annotations, and views.

Candidates are expected to demonstrate not only the ability to execute these skills but also to troubleshoot and optimize models efficiently.

Importance of Practical Experience

While theoretical knowledge forms the foundation, practical experience with SolidWorks dramatically improves the chances of success in the CSWP exam. Engaging regularly in hands-on projects helps candidates internalize workflow patterns and common challenges encountered during modeling and assembly. This practical exposure aligns closely with the exam's emphasis on real-world application rather than rote memorization.

Effective Preparation Strategies for the CSWP Exam

Preparation for the CSWP certification is multifaceted, combining study materials, practice exams, and time management techniques. A well-rounded study plan typically includes the following components:

1. **Official SolidWorks Training:** Attending authorized CSWP courses provides structured learning and insights from certified instructors.
2. **Practice Exams and Sample Questions:** Utilizing practice tests simulates exam conditions and highlights areas requiring improvement.
3. **Online Resources and Forums:** Engaging with SolidWorks user communities and tutorial platforms offers tips, troubleshooting advice, and peer support.
4. **Time Management Drills:** Practicing under timed conditions helps candidates maintain focus and pace during the actual exam.

Integrating these elements ensures a balanced approach that addresses both knowledge gaps and exam-taking tactics.

Tools and Study Materials

Several study aids are particularly beneficial for CSWP candidates:

- **CSWP Exam Guidebooks:** Comprehensive manuals that cover exam topics with examples and exercises.
- **Video Tutorials:** Step-by-step SolidWorks tutorials that reinforce difficult concepts and techniques.

- **SolidWorks Certification Preparation Software:** Interactive platforms that mimic the exam interface and provide instant feedback.

Selecting resources tailored to individual learning preferences enhances retention and boosts confidence.

Comparing CSWP with Other SolidWorks Certifications

Within the SolidWorks certification hierarchy, the CSWP stands as an intermediate-level credential, positioned between the Certified SolidWorks Associate (CSWA) and the Certified SolidWorks Expert (CSWE) certifications. Understanding this context helps candidates set realistic goals and progression paths.

- **CSWA:** Focuses on basic part modeling and fundamental CAD principles, suitable for beginners.
- **CSWP:** Requires advanced modeling skills, assembly creation, and drawing generation, reflecting professional competence.
- **CSWE:** Represents mastery of SolidWorks, including complex assemblies, surfacing, and advanced simulation tasks.

Those aiming for the CSWP should ensure a solid foundation in CSWA topics before advancing, as the exam builds upon those core concepts.

Industry Recognition and Career Impact

Earning the CSWP certification can significantly enhance a professional's credibility within engineering and design fields. Employers often view CSWP holders as capable of handling complex projects and contributing to product development efficiently. Moreover, certified individuals tend to have access to better job opportunities, higher salaries, and advancement potential.

Challenges and Considerations for CSWP Candidates

Despite its benefits, the CSWP exam presents certain challenges that

candidates must anticipate:

- **Time Pressure:** The tight time constraints require quick decision-making and proficiency in navigating the software.
- **Technical Complexity:** Some exam tasks involve intricate modeling techniques that may require advanced understanding.
- **Remote Exam Environment:** The online proctoring system demands a distraction-free setting and reliable internet connectivity.

Addressing these challenges proactively through rigorous preparation and simulation tests can mitigate risks and improve performance.

CSWP exam guide enthusiasts and prospective candidates will find that systematic preparation, combined with practical experience, lays the groundwork for certification success. As SolidWorks continues to evolve with new features and industry applications, staying current with the software's capabilities and exam updates is equally important to maintain professional relevance.

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cswp exam guide: *CSWP Exam Preparation* Ryan Lee, 2020-04-23 This book, CSWP exam preparation: All-in-one guidebook with practice exams, is written to assist students in college and universities, engineers, and professionals who are interested in getting a certification of CSWP(Certified SOLIDWORKS Professional). There are so many books available for learning SOLIDWORKS, while there are very few books to help for CSWP exam preparation. To prepare for exams efficiently, future exam takers essentially need exam-oriented preparation books. There are some online/offline training programs. However, those are very expensive to prepare a CSWP exam. This book is divided into four parts. Part I covers introductory principles of CSWP, including fundamental knowledge of the CSWP exam. Part II covers the first segment of the CSWP exam mainly focusing on part modeling, including six practice exam sets. Also, key skills for passing the segment one exam are explained with various hands-on examples. Part III covers the second segment of the CSWP exam focusing on the configuration and design intent. Part IV covers the third segment focusing on the assemblies and mates. Organizing the book in this way is to help the students, engineers, and professionals to prepare the CSWP exam efficiently. This book has a significant number of pictorial descriptions of the steps with screenshots that a student should follow. Since 2018, the format of the CSWP exam has been updated. However, the problem pattern covered by the exam and the required SOLIDWORKS skill does not change significantly. To help

adapt to this new format, two sets of updated tests form are included in each part. The first practice test set for each part is provided with a walkthrough instruction that includes a step-by-step problem-solving process, and the rest of the practice test sets are provided with the answers in the end-of-section with video tutorials. Time management is essential in CSWP, so it is recommended that you practice by completing the test within the specified time. It is hoped that students and engineers will find this edition useful for passing the CSWP exam in the first attempt.

cswp exam guide: Official Certified SolidWorks Professional (CSWP) Certification Guide and Video Instruction David Planchard, Marie Planchard, 2013-03-18 This book, along with the companion disc that accompanies it, 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. 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.

cswp exam guide: Official Certified SOLIDWORKS Professional Certification Guide (2018, 2019, 2020) David Planchard, 2019-08-29 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.

cswp exam guide: Official Certified SOLIDWORKS Professional Certification Guide (SOLIDWORKS 2020 - 2023) David C. Planchard, 2022-11 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

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cswp exam guide: Official Certified SolidWorks Professional (CSWP) Certification Guide with Video Instruction David Planchard, 2014-04-28 This book, along with the companion disc that accompanies it, 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. This book comes with a companion disc 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 disc for SolidWorks 2012, 2013 and 2014. 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.

cswp exam guide: Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA (SOLIDWORKS 2015 - 2017) David Planchard, 2017-02 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 SOLIDWORKS Sustainable Design Associate (CSDA) and the Certified SOLIDWORKS Simulation Associate Finite Element Analysis (CSWSA FEA) exam. 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 SOLIDWORKS 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 the Finite Element Method (FEM).

cswp exam guide: Certified Kubernetes Administrator (CKA) Exam Guide Gavin R. Bayfield, 2024-02-01 Conquer the CNCF Certified Kubernetes Administrator (CKA) exam KEY FEATURES ● This Kubernetes technical guide covers the entire CNCF syllabus for the CKA exam. ● Contains extensive hands-on manifest code, command line examples and task walkthroughs. ● Includes two practice CKA exams with fully-worked solutions. DESCRIPTION Kubernetes is the de facto industry-standard for production-grade container orchestration. The CNCF Certified Kubernetes Administrator (CKA) Certification is an in-demand, industry-recognised benchmark denoting the holder as possessing the expertise required to create, secure, manage and troubleshoot Kubernetes clusters. The CNCF CKA exam is a fully hands-on, command line based assessment. This guide structure follows the CKA curriculum. Start with need-to-know Kubernetes concepts and implementation details using hands-on code examples and command line walkthroughs. You will explore core concepts including cluster architecture, installation and configuration. As the book progresses, you will master security principles with RBAC, confidently deploy and manage applications, and explore the intricacies of Kubernetes storage and networking. The following chapters on Troubleshooting and Exam Preparation provide important exam and assessment environment hints and tips, command line techniques and crucial exam strategies. The final two chapters present full-length CKA practice exams with fully-worked exam-grade solutions. This pragmatic blend of theory, worked examples, and analysis techniques ensures the reader is primed to be successful in the real Certified Kubernetes Administrator (CKA) exam. WHAT YOU WILL LEARN ● The skills and knowledge required to professionally administer Kubernetes clusters. ● Understanding of Kubernetes command line examples and task walkthroughs. ● Insight from detailed fully-worked solutions for two CKA practice exams. ● Working details for the CNCF CKA exam environment. ● How to manage Kubernetes clusters with precision and control. WHO THIS BOOK IS FOR This book is for cloud application developers, devops engineers, cloud architects and datacentre administrators who want to conquer the CNCF CKA exam, certifying their Kubernetes skills in the marketplace. TABLE OF CONTENTS 1. Introduction 2. Cluster Architecture, Installation and Configuration 3. Workloads and Scheduling 4. Services and Networking 5. Storage 6. Troubleshooting 7. CKA Exam Preparation 8. CKA Mock Exam 1 with Solutions 9. CKA Mock Exam 2 with Solutions

cswp exam guide: *Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWA-S, CSWA-AM (SOLIDWORKS 2019 - 2021)* David Planchard, 2020-11 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 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 demonstrating an understanding in 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 and to inform you on 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 and 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.

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