

# Certiﬁed SolidWorks Associate (CSWA)

## Sample Exam Questions

These questions below represent sample CSWA Exam questions. These modelling and assembly-level questions that require you to build models should be completed in approximately 10 minutes per problem. Questions 1 and Question 2 should take approximately 5 minutes each.

### Question 1.

Build this part in SolidWorks.

Unit: millimeters. Part A: 100mm wide, 50mm, 100mm high.

Dimensions: 10. Part B: 10mm. Dimensions:

$A = 10\text{mm}$ ,  $B = 50\text{mm}$ ,  $C = 100\text{mm}$ . All holes through part.

Part material: Copper. Density =  $8.96000 \text{ kg/mm}^3$ .

What is the

Overall width of

the part?  $\text{in}$

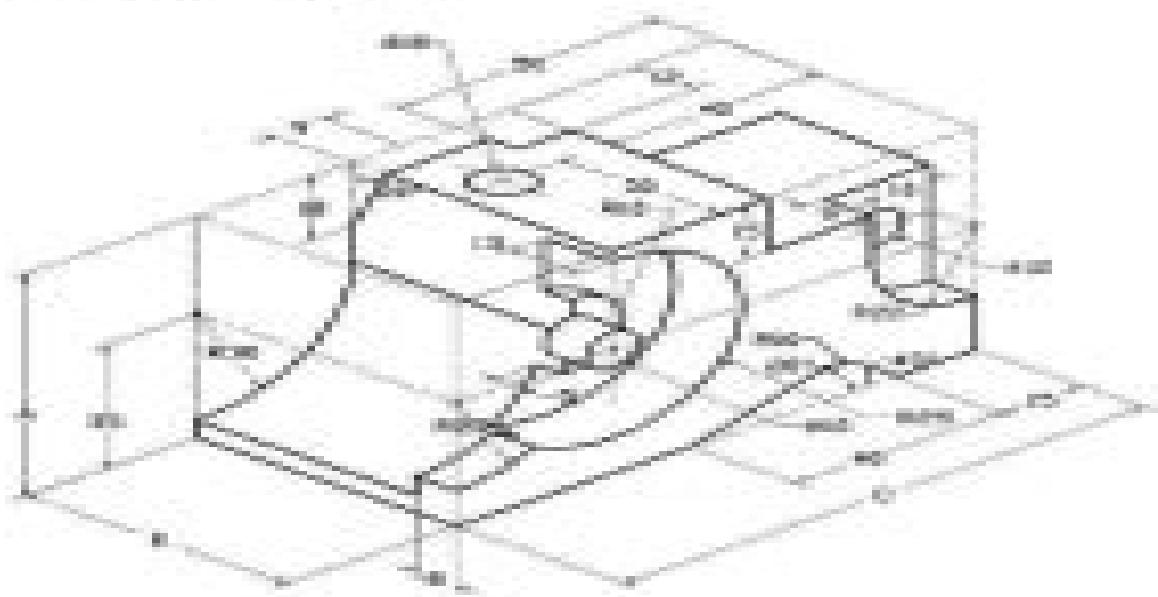
Options?

(A) 130.0

(B) 120.0

(C) 114.0

(D) 123.000



# Cswa Study Guide

**David C. Planchard, Marie P. Planchard**

## **Cswa Study Guide:**

*Official Certified Solidworks Associate CSWA Exam Book* David C. Planchard, Marie P. Planchard, 2007 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

*Official Certified SolidWorks Associate (CSWA) Examination Guide* David C.

Planchard, Marie P. Planchard, 2011-03-11 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 CSWP 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

**Official Guide to Certified SolidWorks Associate Exams - CSWA, CSDA, CSWSA-FEA SolidWorks 2015, 2014, 2013, and 2012** David C.

Planchard, 2014-11-28 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 [Official Guide to Solidworks Associate Exams](#) David Planchard,2012-11-14 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 SustainabilityXpress 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.

*Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWSA-FEA, CSWA-AM (2017-2019)* David Planchard, 2019-01-15. 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.

*Parametric Modeling with SOLIDWORKS 2024* Randy Shih, Paul Schilling, 2024. Teaches you SOLIDWORKS 2024 and parametric modeling with hands on tutorials. Also covers sheet metal, SimulationXpress, basic motion analysis, collision detection, and more. Prepares you to take the Certified SOLIDWORKS Associate Exam. Includes a chapter introducing you to 3D printing. Parametric Modeling with SOLIDWORKS 2024 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2024 solid modeling and parametric modeling techniques and concepts. This book introduces SOLIDWORKS 2024 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis. This book takes a hands on exercise

intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2024 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs

## **SOLIDWORKS**

**2019 and Engineering Graphics** Randy Shih,2019 SOLIDWORKS 2019 and Engineering Graphics An Integrated Approach combines an introduction to SOLIDWORKS 2019 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What's more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of SOLIDWORKS 2019 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2019 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of sixteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2019's features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

Parametric Modeling with SOLIDWORKS 2023 Paul Schilling,Randy Shih,2023-05 Teaches you SOLIDWORKS 2023 and parametric modeling with hands on tutorials Also covers sheet metal SimulationXpress basic motion analysis collision detection and more Prepares you to take the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing Parametric Modeling with SOLIDWORKS 2023 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2023 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2023 on a step by step basis starting with constructing basic shapes all the way through to

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### **Parametric Modeling with**

**SOLIDWORKS 2019** Paul Schilling,Randy Shih,2019 Parametric Modeling with SOLIDWORKS 2019 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2019 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2019 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2019 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing

including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs **Parametric Modeling with SOLIDWORKS 2018** Randy Shih,2018 Parametric Modeling with SOLIDWORKS 2018 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2018 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2018 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2018 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs **SOLIDWORKS**

**2023 and Engineering Graphics: An Integrated Approach** Randy Shih,2023-05-04 SOLIDWORKS 2023 and Engineering Graphics An Integrated Approach combines an introduction to SOLIDWORKS 2023 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What's more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of SOLIDWORKS 2023 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2023 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of sixteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2023's features

only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering     **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     **Guide of Soul and Mind** Barry L. Callen,1992     [Canadian Almanac & Directory](#) Laura Mars-Proietti,Leslie MacKenzie, Sir,2008-10 The Canadian Almanac government and public affairs executives lawyers marketing sales and advertising executives researchers editors and journalists and is a must for all Canadian libraries and universities     **Soil/water Science Research in the Plant Science Department ... Annual Report** ,1999     **Soil/water Science Research in the Plant Science Department** ,1994  
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