



## INTRODUCTION

Welcome to the Professional stage of your SOLIDWORKS certification journey. For the CSWP, you will be required to build complex mechanical parts that can be changed quickly and accurately; adjust and create configurations; and build assemblies with precision in a timely fashion. This is also the first requirement taking you closer towards the level of certified SOLIDWORKS Expert!

### WHAT IS THE CSWP?

The Certified SOLIDWORKS Professional is an intermediate skills test to show that a skilled user understands how to build clean prismatic mechanical part models with Design Intent, because they have carefully planned for future revisional changes. This is the industry standard certification exam that all dedicated SOLIDWORKS users should work towards achieving.

*"After Graduation, our Mechanical Engineering Students are anxious to begin their career; as such I strive to help them prove their exceptional skills, depth of knowledge, and personal experience to any potential employer. I highly recommend that all of my students practice, study, and hone their skills by working towards earning their **Certified SOLIDWORKS Professional**. Upon success, they can provide proof to future employers*

*that they can quickly design, model, and create engineering drawings for almost any engineering design challenge."*

– Perry G. Wood, PE.



## WHAT SKILLS MAY BE REQUIRED TO PASS THE CSWP EXAM:

- Sketch entities - Lines, Centerline, Circle, Arc, Rectangle, Slot, Ellipse
- Sketch tools - Add Relation, Trim, Offset, Convert, Mirror
- Smart Dimensions
- Link Values
- Equations
- Sketch relations - Coincident, Concentric, Tangent, Parallel, Perpendicular, Equal, Collinear
- Boss and Cut Features - extrudes, revolves, sweeps, lofts.
- Intelligent Feature conditions – Starting and Ending constraints.
- Delete Face
- Move Face
- Rib
- Hole Wizard
- Shell with Multi-thickness
- Draft with Neutral Plane
- Fillets and Chamfers
- Linear, Circular, and Fill patterns
- Multi-body part environment including the use of Feature Scope.
- Combine- Add, Subtract, or Common
- Split
- Delete/Keep Body
- Materials - How to assign the correct material to update the parts density.
- Mass properties - Specifically how to find center of mass from a given coordinate system.
- Configurations- Adding or modifying
- Suppression states
- 'Configure Feature' and/or 'Configure Dimension.'
- Excel Design tables
- Inserting components into an assembly.
- Replace Component
- Interference detection
- Move with Collision detection
- In-context features
- External references
- Assembly features
- Standard Mates - Coincident, Parallel, Perpendicular, Tangent, Concentric, Distance, Angle
- Advanced Mates – Width, Symmetrical, Limit Distance/Angle, Path
- Mechanical Mates - Slot Mate, Cam Mate, Gear Mate
- Rigid vs. Flexible sub-assemblies
- Annotations



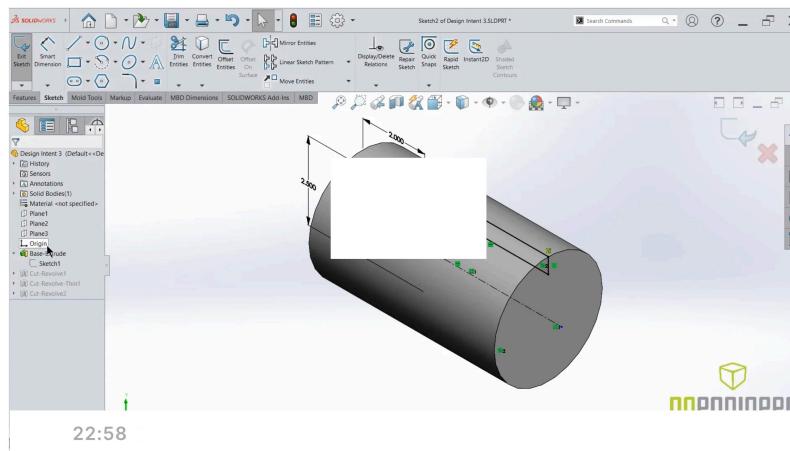
- Reference geometry –  
Coordinate Systems, Planes,  
Axis, Mate References

**\*\*There are several iterations of CSWP exam test questions and models, therefore some or all the above skills may be needed; additional skills may be required as this list is not intended to represent every last scenario encountered in all version of test questions and is subject to change when the exam is revised, but you should be able to figure it out as that is what makes you a PROFESSIONAL!\*\***

CSPW CERTIFICATION ≡

800-688-3234

CONTACT US



## HOW DO I PREPARE FOR THE CSWP?

Obtaining your Certified SOLIDWORKS Professional Certification (CSWP) will be challenging. This certification challenges each user in three specific skill areas. First and foremost it tests a user's ability to create moderately challenging prismatic parts that can withstand a series of changes. The second skill set that is required deals with creating and interrogating configurations, which are iterations of the same component in the same file. And lastly, the ability to build an assembly accurately in order to derive a correct center of mass based on the position of components and the origin.

According to current SOLIDWORKS records, less than half of all SOLIDWORKS users who attempt the CSWP are successful. This number is based upon the CSWP segment one statistics, the required score to pass segment one is 75, but the average score is 64. Those who pass segment one would obviously have to continue and successfully take and pass the additional exam segments 2 and 3. This number would include users who were not prepared and failed the first time, then finally attended the Official SOLIDWORKS classes and/or studied their training manuals and learned enough to take and pass the Certification exam the second time. Not to mention the users who passed segment one but never pursued taking the additional exam segments. All of us here at GoEngineer want to see you succeed!

Therefore, the first critical step is to enroll in our Official SOLIDWORKS training courses; **SOLIDWORKS Essentials**, **SOLIDWORKS Advanced Part Modeling** and **SOLIDWORKS Advanced Assembly**. As these classes combined will teach and expose you to all the material you can expect to see on your certification exam. And then, while in class, please be sure to ask the instructor every clarifying question you can think of so that you learn the material inside and out. Additionally, to help our students pass the CSWP and achieve first-time success, we have compiled the best study materials and online resources. These include sample exams, tests prep books, online lessons, and videos so you can feel confident in your knowledge of SOLIDWORKS and therefore easily pass your CSWP.

## CSWP OVERVIEW

### Segment 1: Part Modeling

During this first segment of the CSWP, you will be tested on your ability to create moderate to complex mechanical parts using some or all of the geometry creation tools. Specifically, these models need to be built in such a manner that they can be changed quickly and easily based upon the required specifications.

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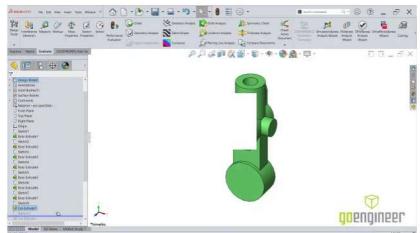
#### + What skills may be required to pass the CSWP Segment 1?

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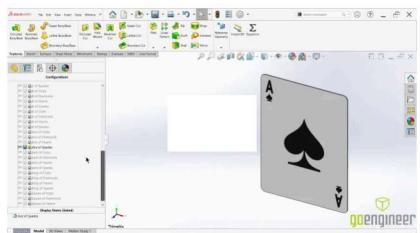
#### + Recommended Training Manuals for Segment 1

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### Segment 2: Configurations

During this segment of the CSWP certification exam, you will need to investigate the given part models and make adjustments based upon the needed requirements. Additionally, you will be required to build and change configurations with the supplied models. The procedure in which you create your

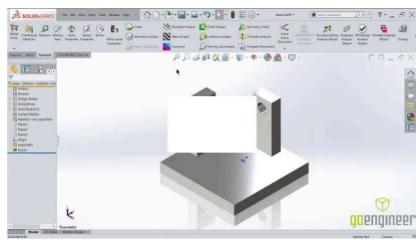


configurations may include design tables and/or the configure feature/configure dimension tool.

- + Examples shown in video:
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- + What skills may be required to pass the CSWP Segment 2 exam?
- 

- + Recommended Training Manuals for Segment 2
- 



## Segment 3: Assemblies

During this segment, you will be given parts and instructions on how to assemble them. Then, you will be asked to either measure between faces of different components or provide the center of mass. Remember to avoid FeatureWorks and altering any materials on the components unless instructed to do so. Be prepared to mate to sketches, curves, or planes as this may be required.

- + Example shown in video
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- + What skills may be required to pass the CSWP Segment 3 exam?
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- + Recommended Training Manuals for Segment 3
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## CSWP RECOMMENDED TRAINING

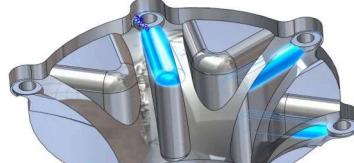
### SOLIDWORKS ESSENTIALS



The GoEngineer SOLIDWORKS Essentials training course will teach you how to build 3D parametric models of parts and assemblies and prepare drawings of those parts and assemblies as you prepare for the CSWP.

[REGISTER](#)

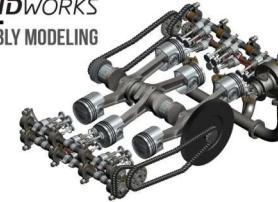
### SOLIDWORKS ADVANCED PART MODELING



The GoEngineer SOLIDWORKS Advanced Part Modeling training course builds upon the Essentials lessons to provide instruction on advanced features and capabilities in SOLIDWORKS and the CSWP exam.

[REGISTER](#)

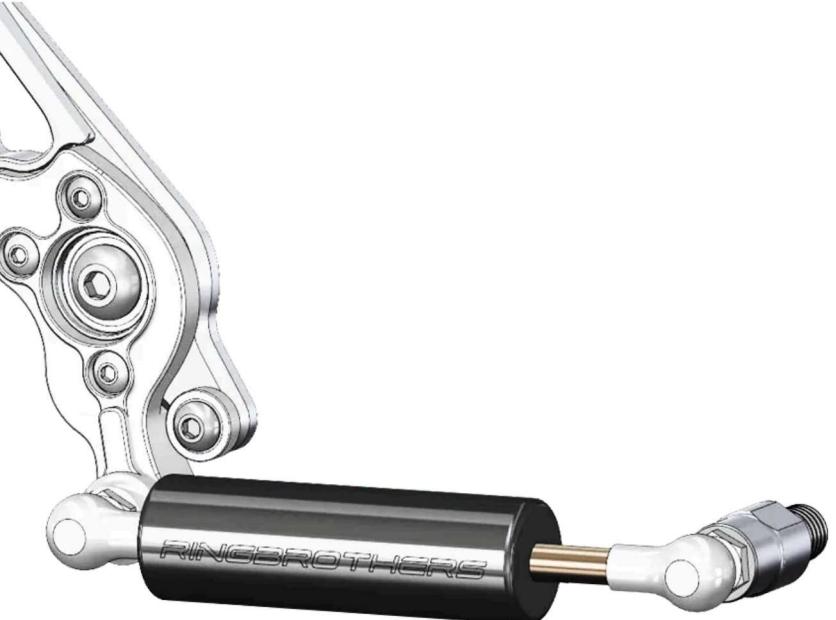
### SOLIDWORKS ASSEMBLY MODELING



The GoEngineer SOLIDWORKS Assembly Modeling training course builds upon the Essentials lessons to provide instruction on advanced features and capabilities in SOLIDWORKS, as well as skills needed for the CSWP exam.

[REGISTER](#)

## CSWP PREP COURSE



## CSWP

Continue your CSWP training with GoEngineer's industry approved CSWP prep course. This course was designed by SOLIDWORKS instructors.

### Topics covered in this course:

1. CSWP Exam Overview
2. Hands-on CSWP Segment 1 Examples
3. Hands-on CSWP Segment 2 Examples
4. Hands-on CSWP Segment 3 Examples
5. Sample Exams for all three segments

[ENROLL IN COURSE](#)

## CERTIFICATION FAQ'S

+ [Why Become Certified?](#)

+ [What are the Certification Goals and Prerequisites?](#)

+ [How do I Access the Certification Directory?](#)

+ [How do I Review Past Exam Results?](#)

+ [How Do I Validate SOLIDWORKS Candidates?](#)

+ How Do I Verify That a SOLIDWORKS Certification is Real?

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+ How Do I Create a Virtual Tester Account?

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+ How Do I Setup a SOLIDWORKS ID?

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## ADDITIONAL STUDY MATERIALS



### MY.SOLIDWORKS PREP COURSE

With over 40 individual training video topics covering the basics, it will provide a great review for getting ready to take the exam. For additional CSWP Certification Preparation, please be sure to check out the My.SOLIDWORKS.com learning path.

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### TRAINING BOOKS AND GUIDES

Utilize guides and manuals written by certified SOLIDWORKS Instructors to help prepare you for the CSWP exam.

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### SOLIDWORKS PART REVIEWER MODELS

Additionally, you can check out some models to interrogate from the SOLIDWORKS Part Reviewer at [3DContentCentral.com](http://3DContentCentral.com).

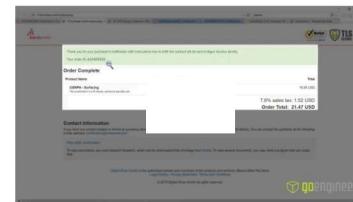
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### SAMPLE EXAM AVAILABLE FROM THE VIRTUAL TESTERPRO CLIENT

Finally right before you take your real Certification Exam, please attempt the free CSWP Sample Exam using the Virtual TesterPro Client for the most realistic practice.

## **ACCESS CERTIFICATION EXAMS**

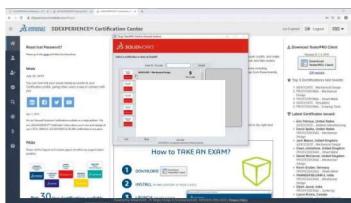


## HOW TO GET A SUBSCRIPTION VOUCHER

[+ Read More...](#)

## HOW TO PURCHASE ADDITIONAL CREDITS

+ [Read More...](#)



## HOW TO USE A TEST VOUCHER

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# MANAGING TEST CREDITS

+ [Read More...](#)

# JOIN THE RANKS OF CERTIFIED SOLIDWORKS USERS

**Users who validate their skills with certifications represent an elite segment of the SOLIDWORKS community.** For some, there is nothing more gratifying than achieving challenging certifications, and certificates are displayed like badges of honor. Others pursue certification to gain a competitive edge in the job market. No matter what your motivation, getting certified provides a clear path to SOLIDWORKS mastery. All certified users are added to a SOLIDWORKS directory corresponding to their level of achievement.

+ [ACCESS USER DIRECTORY](#)

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[VIEW ADDITIONAL CERTIFICATIONS](#)

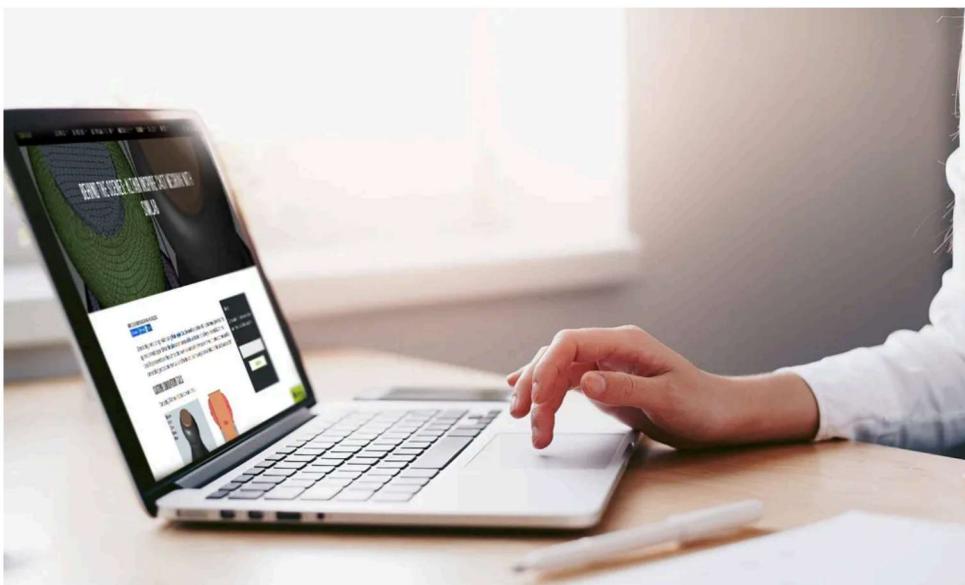
## ADDITIONAL RESOURCES

TAKE ADVANTAGE OF GOENGINEER'S EXTENSIVE KNOWLEDGE BASE AND RESOURCES



## FIND A SOLUTION

Our robust Knowledge Base contains over 12,000 resources to help answer your product design questions. From basic CAD questions to in-depth guides and tutorials, find your solution here.

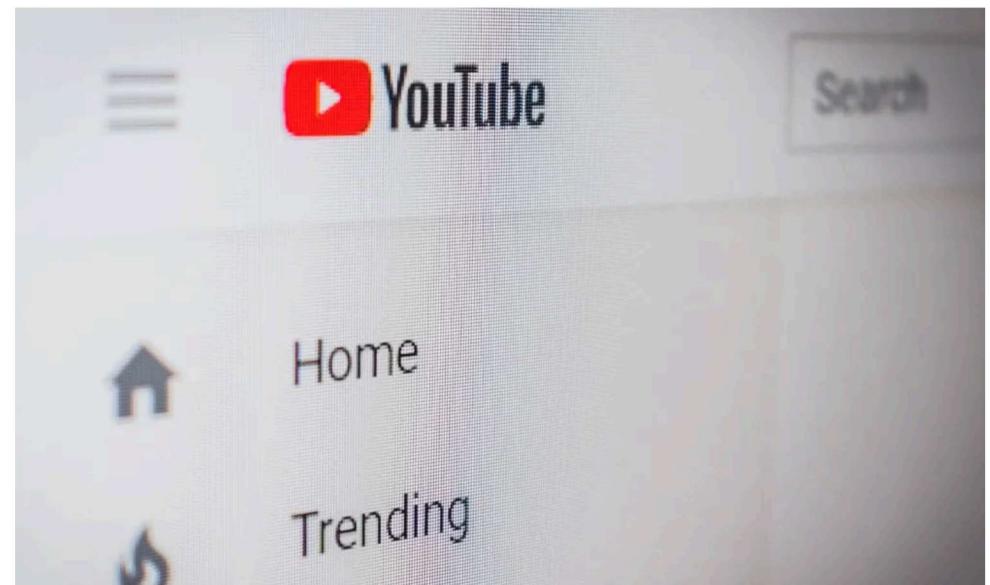


## BLOG



## PROFESSIONAL TRAINING

Improve your skills with professional training and certifications in SOLIDWORKS, CAM, 3D Printing, and 3D Scanning offered four ways: self-paced, online, on-site, or in-classroom.



## YOUTUBE CHANNEL

#1 Technical Resource Worldwide - Right at your fingertips. Search or browse through hundreds of SOLIDWORKS tips & tricks, additive manufacturing product developments, announcements, how-to guides, and tutorials.

Our YouTube channel hosts hundreds of educational tutorials, product demonstrations, recorded webinars, and best practices for all of our products and services.



## ONLINE STORE

Order 3D printing materials and consumables, enroll in SOLIDWORKS training classes, and buy official GoEngineer gear directly from our online store.



## WEBINARS

Our engineering webinars are hosted by some of the top experts in the industry. They are always recorded, always free, and always offer a live Q&A.



## 3D PRINTING SERVICES

Need to 3D print a part? Our Additive Manufacturing experts will 3D print your part and deliver it to you using the latest technology on one of our professional FDM, PolyJet and SL 3D printers.



## SIMULATION SERVICES

GoEngineer's CAE consultants help you design better products faster. Our advanced FEA & CFD services provide critical engineering insight to world-class OEMs, suppliers, and start-ups alike.

### PRODUCTS

- SOLIDWORKS
- 3DEXPERIENCE
- 3D Printers
- 3D Scanners
- CAM
- Promotions

### RESOURCES

- About Us
- Application Mentoring Session
- Blog
- Calendar
- Careers
- Community
- Customer Portal
- Customer Stories
- Knowledge Base
- Online Store
- Training

### SERVICES

- 3D Printing
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- CAM Post Processors
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- Managed Administration
- Simulation

### CONTACT

Stay up to date with GoEngineer news!

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