

# CSWA Academic Certification Provider: Program and Tech Review

2015 - 2016



**3DEXPERIENCE**<sup>®</sup>

# An inside look...CSWA Academic Certification Provider

- ▶ Rules and Policies
- ▶ How to apply...
- ▶ Inside the online testing environment...

Your account login

Your exam credits

Converting your credits to vouchers

Distributing vouchers to students

- ▶ Inside the CSWA...

# Rules and Policies

## Certification New Rules

As an Academic Certification Provider you must read and agree to the following during the application process:

### Before the Exam

- ▶ Provider applies for exam credits 10 business days before exam day
- ▶ Provider verifies the testing environment 5 business days before exam day

### During the Exam

- ▶ Each student is required to use the same personal email address for all exams.
- ▶ Students must take their own exams.
- ▶ If a student fails any segment of an exam, the student must wait 30 days before retaking the exam.
- ▶ Students must pass the CSWA exam first before taking any other certification exam.

### Read and Confirm

- ▶ SolidWorks monitors the testing environment during exams. We have a right to terminate a proctor or delete a certificate due to misuse of the Academic Certification Provider program.

# How to apply...

1. Go to <http://www.solidworks.com/cswa-academic> and click on the “SolidWorks Academic Certification Provider Application” link.
2. Complete the web application.  
**School Name**  
**School Address**  
**School Website URL**  
**SolidWorks License Number**  
**Contact Name**  
**Contact Email**  
**Contact Telephone Number**  
**Your SolidWorks Reseller**  
**Proposed Date to give the CSWA Exam**  
**Proposed number of students to take the CSWA Exam**
3. This form is then reviewed by SolidWorks Education and SolidWorks Certification departments to validate the application (including the requirement of the school to be current with their subscription service)
4. Upon approval, the Certification department will create an online testing account for the contact person, based on their email address, and issue a set number of complimentary CSWA exam credits. These credits must be converted to ‘vouchers’ by the contact person then individually distributed by the contact person to each student on test day. The contact person will receive an email from virtualtester.com indicating their login credentials.

# Your account login

► Visit this website: <http://www.virtualtester.com/solidworks>

**SOLIDWORKS VirtualTester User Portal** English

Home Search User Profile Help

### Latest News

**CEPA Exam just released**

A Certified Enterprise PDM Administrator (CEPA) is an individual who has successfully passed an advanced examination in SolidWorks Enterprise PDM administration skills and is ready to manage a SolidWorks Enterprise PDM implementation on behalf of his or her company.

**Drawing Exam reaches 500 Certified Users**

The completion of the Certified SolidWorks Professional Drawing Tools exam proves that you have successfully demonstrated your ability to use the tools found in the SolidWorks Drawing environment.

**SolidWorks CERTIFIED PROFESSIONAL** Advanced Drawing Tools Specialist

### Links

[SolidWorks Certification Blog](#)

## Welcome to SolidWorks Certification Center

SolidWorks certifications can be used as a benchmark to measure your knowledge and competency with SolidWorks software. Exams focus on the fundamental skills necessary to ensure your company's overall success using SolidWorks.

**New function - Link your LinkedIn profile**

NEW FUNCTION! - Link your LinkedIn profile to your VirtualTester Account

### How to take a Certification Exam?

Certification Exams are available 24x7 by downloading the **Tangix TesterPRO Client** software from the link to the left and install the software on your computer. For a list of available exams and information on pricing and availability, see [SolidWorks MCAD Certification Program homepage](#).

More text here...

### Download TesterPRO Client

Download TesterPRO Client  
ZIP-version

#### Latest Certificates issued:

- Joe Rousseau  
Certified SolidWorks Professional - Advanced Mold Tools Specialist
- Umang Dighe  
Certified SolidWorks Associate
- John Seyler  
Certified SolidWorks Professional - Advanced Weldments Specialist
- Jonathan Lopez  
Certified SolidWorks Professional - Core
- Josh Schoenfeld  
Certified SolidWorks Professional - Core
- Vanderlei Luis Reisner  
Certified SolidWorks Associate
- David Friese  
Certified SolidWorks Professional - Core
- Franco Ramos  
Certified SolidWorks Expert
- Franco Ramos  
Certified SolidWorks Expert
- Jose Abraham Guerrero Velasco  
Certified SolidWorks Expert

*Only Users that have enabled 'list in online directory' are listed here.*

**Administrator Login**

# Your account login

Click here

**SOLIDWORKS VirtualTester User Portal**

English

Home | Profile | Search | Help

### Latest News

#### CEPA Exam just released

A Certified Enterprise PDM Administrator (CEPA) is an individual who has successfully passed an advanced examination in SolidWorks Enterprise PDM administration skills and is ready to manage a SolidWorks Enterprise PDM implementation on behalf of his or her company.

#### Drawing Exam reaches 500 Certified Users

The completion of the Certified SolidWorks Professional Drawing Tools exam proves that you have successfully demonstrated your ability to use the tools found in the SolidWorks Drawing environment.

**SolidWorks** Advanced Drawing Tools Specialist  
**CERTIFIED PROFESSIONAL**

### Links

[SolidWorks Certification Blog](#)

## Welcome to SolidWorks Certification Center

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More text here...

### Download TesterPRO Client

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ZIP-version

### Latest Certificates issued:

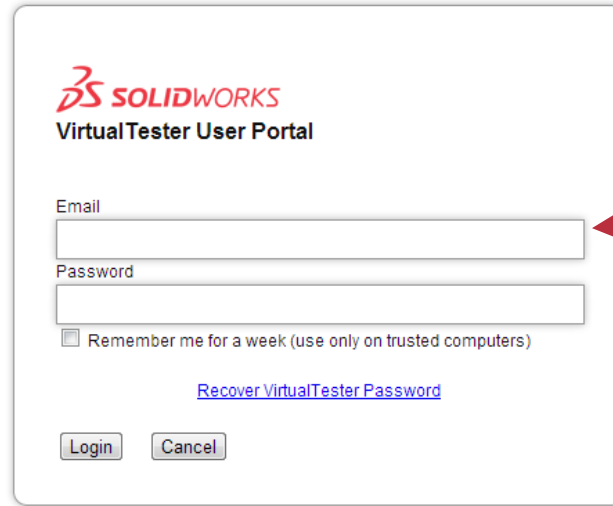
- Joe Rousseau  
*Certified SolidWorks Professional - Advanced Mold Tools Specialist*
- Umang Dighe  
*Certified SolidWorks Associate*
- John Seyler  
*Certified SolidWorks Professional - Advanced Weldments Specialist*
- Jonathan Lopez  
*Certified SolidWorks Professional - Core*
- Josh Schoenfeld  
*Certified SolidWorks Professional - Core*
- Vanderlei Luis Reisner  
*Certified SolidWorks Associate*
- David Friese  
*Certified SolidWorks Professional - Core*
- Franco Ramos  
*Certified SolidWorks Expert*
- Franco Ramos  
*Certified SolidWorks Expert*
- Jose Abraham Guerrero Velasco  
*Certified SolidWorks Expert*

Only Users that have enabled 'list in online directory' are listed here.

[Administrator Login](#)

# Your account login

- ▶ Use the login credentials sent by email from virtualtester.com (check spam filters, junk email etc. before claiming you did not receive this email)



**SOLIDWORKS**  
VirtualTester User Portal

Email

Password

Remember me for a week (use only on trusted computers)

[Recover VirtualTester Password](#)

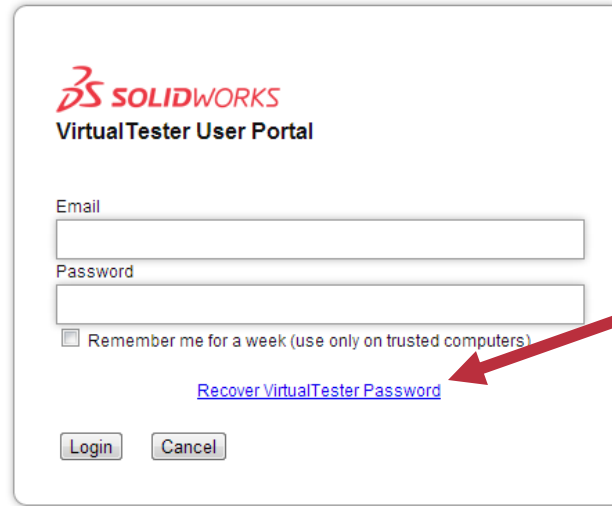
Login Cancel

Login here

[English](#) [Deutsch](#) [Español](#) [Français](#) [日本語](#)  
[한국어](#) [Português](#) [Svenska](#) [简体中文](#) [繁體中文](#)

# Your account login

- ▶ If you already have an account but have forgotten your password, use the “**Recover Virtual Tester Password**” link on login screen



**SOLIDWORKS**  
VirtualTester User Portal

Email

Password

Remember me for a week (use only on trusted computers)

[Recover VirtualTester Password](#)

Login Cancel

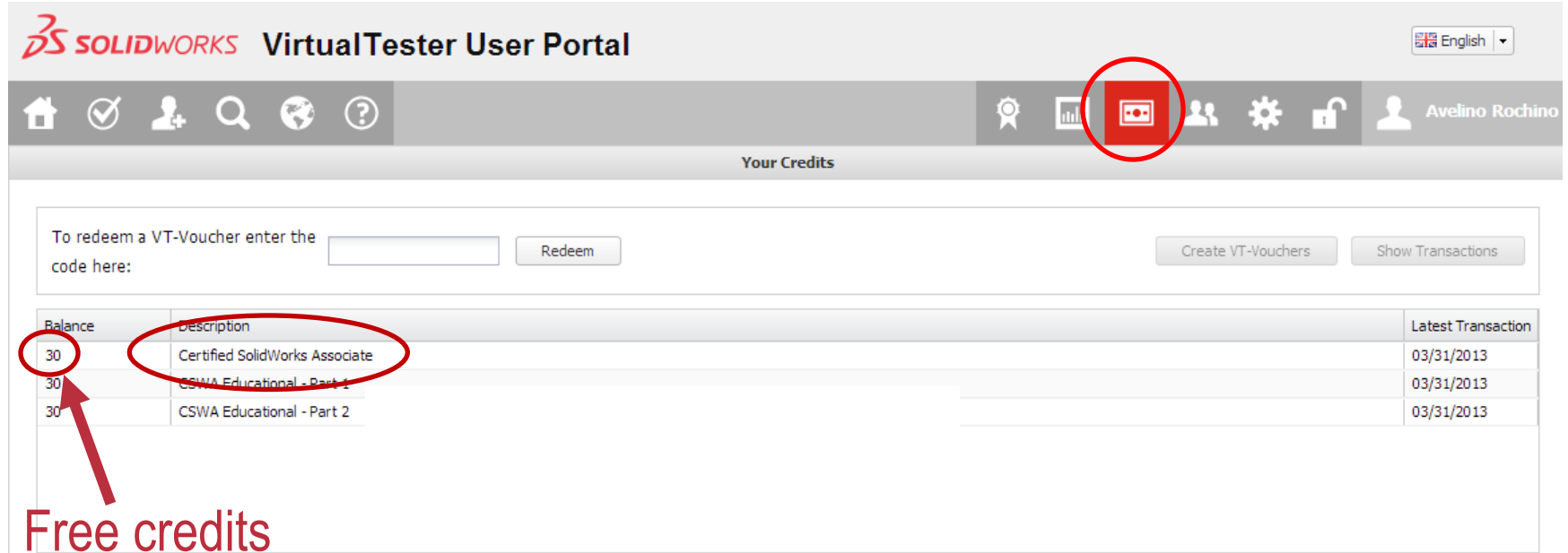
Recover Password

[English](#) [Deutsch](#) [Español](#) [Français](#) [日本語](#)  
[한국인](#) [Portugués](#) [Svenska](#) [简体中文](#) [繁體中文](#)



# Your account with complimentary test credits

- ▶ Click on the **Credits/Vouchers** icon 
- ▶ Notice your personal account has a set number of complimentary credits in it.



The screenshot shows the SolidWorks VirtualTester User Portal. The user is Avelino Rochino. The 'Your Credits' section is highlighted. A table lists the user's credits, with the first row circled in red and an arrow pointing to it from the text 'Free credits'.

Balance	Description	Latest Transaction
30	Certified SolidWorks Associate	03/31/2013
30	CSWA Educational - Part 1	03/31/2013
30	CSWA Educational - Part 2	03/31/2013

# Understanding Credits vs. Vouchers...

## IMPORTANT!!!

- ▶ A **credit** allows you to personally take one of our online examinations.
- ▶ A **voucher** allows you to distribute that privilege to others
- ▶ A **trackable voucher** allows you to track the exam results of the person to whom you passed the voucher

# How to transform Credits into Trackable Vouchers

1. Click on the credits you wish to transform
2. Click on the **“Create VT-Vouchers”** button

The screenshot shows the 'VirtualTester User Portal' interface. At the top, there is a navigation bar with icons for home, checkmark, user, search, globe, and help. The user's name 'Avelino Rochino' is displayed in the top right. Below the navigation bar, the 'Your Credits' section is visible. It contains a form to redeem a voucher and a table of credits. The 'Create VT-Vouchers' button is circled in red, and a red arrow points to it with the text 'Button for creating vouchers'. The 'Certified SolidWorks Associate' credit entry in the table is also circled in red.

To redeem a VT-Voucher enter the code here:

Balance	Description	Latest Transaction
30	Certified SolidWorks Associate	03/31/2013
30	CSWA Educational - Part 1	03/31/2013
30	CSWA Educational - Part 2	03/31/2013

Button for  
creating vouchers

# Creating Trackable Vouchers

- ▶ When you want to begin testing students...simply transform credits into vouchers...

**Create VT-Vouchers**

**Certified SolidWorks Associate**

Your Current Balance: 30

VT-Vouchers to create: 1

Trackable VT-Vouchers:  Yes  No

Tracking Tag: ME101 Class Final Exam

VT-Vouchers expire on: 06/02/2013

Create VT-Vouchers Cancel

Here we can create unique test voucher IDs for each student

Select this option to make Trackable vouchers

Create a Tracking Tag to organize the results of the Trackable Vouchers. (Hint: You can make a tag with the name and year of the class)

# Vouchers – The credits are transformed into vouchers

3DS.COM/NETVIBES © Dassault Systèmes | Confidential Information | 7/29/2015 | ref.: 3DS\_Document\_2014

To redeem a VT-Voucher enter the code here:

Balance	Description	Latest Transaction
25	Certified SolidWorks Associate	04/02/2013
30	CSWA Educational - Part 1	04/02/2013
30	CSWA Educational - Part 2	04/02/2013

**Active Vouchers** | Redeemed Vouchers

Code	Amount	Description	Tracking Tag	Created On	Expires On	
T-DLGMTTVK	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-46J5FE2R	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-AEK34TSE	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-5W5K2A3Q	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-YQET7VPZ	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>

# Vouchers

The screenshot shows a web interface titled "Your Credits". At the top, there is a navigation bar with icons for home, checkmark, user, search, globe, and help. On the right, there are icons for settings, a calendar, a video call, a group of people, a gear, a lock, and a user profile labeled "Avelino Rochino".

Below the navigation bar, there is a section for redeeming vouchers. It contains a text input field with the placeholder "To redeem a VT-Voucher enter the code here:", a "Redeem" button, and two buttons: "Create VT-Vouchers" and "Show Transactions".

Below this is a table with the following data:

Balance	Description	Latest Transaction
25	Certified SolidWorks Associate	04/02/2013
30	CSWA Educational - Part 1	04/02/2013
30	CSWA Educational - Part 2	04/02/2013

A red text overlay with an arrow pointing to the table says: "Note the Tracking Tag serves as extra information with this group of vouchers".

Below the table are two tabs: "Active Vouchers" and "Redeemed Vouchers". The "Active Vouchers" tab is selected, showing a table with the following data:

Voucher Code	Amount	Description	Tracking Tag	Created On	Expires On	Checkmark
T-DLGMTTVK	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-46J5FE2R	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-AEK34TSE	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-5W5K2A3Q	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-YQET7VPZ	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>

A red text overlay with an arrow pointing to the "Active Vouchers" table says: "Voucher codes".

At the bottom right of the interface, there are two buttons: "Copy Voucher Code" and "Export as Excel-file".

Note: The "T" in front of the number indicate they are Trackable



Vouchers.  
DS NETVIBES

# Distributing the Vouchers

Once you have created the vouchers, you can copy and paste the voucher numbers to programs such as Excel, Word, or Outlook.

Balance	Description	Latest Transaction
25	Certified SolidWorks Associate	04/02/2013
30	CSWA Educational - Part 1	04/02/2013
30	CSWA Educational - Part 2	04/02/2013

Active Vouchers		Redeemed Vouchers				
Code	Amount	Description	Tracking Tag	Created On	Expires On	
T-DLGMITVK	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-46J5FE2R	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-AEK34TSE	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-5W5K2A3Q	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-YQET7VPZ	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>



 Copy Voucher Code  Export as Excel-file

# Distributing the Vouchers

Use CTRL Select or SHIFT Select to multi-select voucher codes.

Balance	Description	Latest Transaction
25	Certified SolidWorks Associate	04/02/2013
30	CSWA Educational - Part 1	04/02/2013
30	CSWA Educational - Part 2	04/02/2013

Active Vouchers		Redeemed Vouchers				
Code	Amount	Description	Tracking Tag	Created On	Expires On	
T-DLGMTTVK	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-46J5FE2R	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-AEK34TSE	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-5W5K2A3Q	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-YQET7VPZ	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>

 Copy Voucher Code  Export as Excel-file

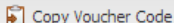
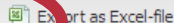


# Distributing the Vouchers

After highlighting the vouchers click on the **“Copy Voucher Code”** button.

Balance	Description	Latest Transaction
25	Certified SolidWorks Associate	04/02/2013
30	CSWA Educational - Part 1	04/02/2013
30	CSWA Educational - Part 2	04/02/2013

Active Vouchers		Redeemed Vouchers				
Code	Amount	Description	Tracking Tag	Created On	Expires On	
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T-5W5K2A3Q	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-YQET7VPZ	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>

 Copy Voucher Code  Export as Excel-file

# Distributing the Vouchers

After clicking on the “Copy Voucher Code” button use CTRL-V to paste the codes to Word, email or Excel.

```
T-DLGMTTVK  
T-46J5FE2R  
T-AEK34TSE  
T-5W5K2A3Q  
T-YQET7VPZ|
```

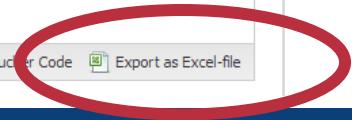
# Distributing the Vouchers

You can export all active voucher codes to Excel in one step by clicking on the **“Export as Excel-file”** button.

Balance	Description	Latest Transaction
25	Certified SolidWorks Associate	04/02/2013
30	CSWA Educational - Part 1	04/02/2013
30	CSWA Educational - Part 2	04/02/2013

Active Vouchers		Redeemed Vouchers				
Code	Amount	Description	Tracking Tag	Created On	Expires On	
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T-46J5FE2R	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-AEK34TSE	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-5W5K2A3Q	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>
T-YQET7VPZ	1	Certified SolidWorks Associate	ME101 Class Final Exam	04/02/2013	06/02/2013	<input type="checkbox"/>

 Copy Voucher Code  Export as Excel-file



# CSWA Sample Exam

- ▶ The CSWA Sample Exam is available as a downloadable PDF document and as an on-line exam
- ▶ The on-line CSWA Sample Exam uses the same procedure as the real CSWA exam
- ▶ The on-line CSWA Sample Exam can be used by students to get the full experience of real testing as well as to make a dry-run of your testing computers to ensure everything is working smoothly

# Test Day... Taking the sample and real CSWA Exam

- ▶ For the on-line sample exam, no vouchers are needed
- ▶ For the real CSWA exam, simply distribute a unique voucher ID to each student (1 voucher per 1 student) and instruct them to begin their exams either by email or written instructions.

The student will need:

- ▶ **A computer with SolidWorks installed on it**
- ▶ **An internet connection**
- ▶ **Our free testing client download: TangixTesterPro**
- ▶ **A valid email address**
- ▶ **A voucher ID code**

# Test Day...the tester client explained

**SOLIDWORKS** SolidWorks® Certification Center

English

Welcome to SolidWorks Certification Center

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**Download TesterPRO Client**

Download TesterPRO Client  
[ZIP-version](#)

**Top 5 Certifications last month:**

1. Certified SolidWorks Associate
2. Certified SolidWorks Professional - Advanced Drawing Tools Specialist
3. Certified SolidWorks Professional - Advanced Sheet Metal Specialist
4. Certified SolidWorks Professional - Advanced Weldments Specialist
5. Certified SolidWorks Professional - Advanced Surfacing Specialist

**Latest Certificates issued:**


- **Marwan El-Husseiny**  
Certified SolidWorks Professional - Core
- **Moataz Lasheen**  
Certified Enterprise PDM Administrator
- **Adriano Peres**  
Certified SolidWorks Professional - Advanced Drawing Tools Specialist
- **John Demeter**  
Certified Enterprise PDM Administrator
- **Justin Kolz**  
Certified SolidWorks Professional - Advanced Weldments Specialist
- **David Tutt**  
Certified SolidWorks Professional - Advanced Drawing Tools Specialist

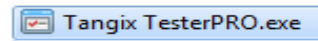
Powered by VirtualTester - © Tangix Design & Development AB, SWEDEN 2005-2013 | [About webpds](#)  
SolidWorks® is a registered trademark of Dassault Systèmes SolidWorks Corp. - All other trademarks and copyrights are the property of their respective owners.

Click here to download the TesterPro Client on the student's computer

# Test Day...the tester client explained



The TesterPro Client will be  downloaded to the student's Windows Desktop into a folder called "Tangix TesterPRO Client". Run the Tangix TesterPro client



# Test Day...Logging into the Tester Client as a new user

- ▶ Run the client as a new user

## IMPORTANT!!!

Your students should enter their information here. At this point a VirtualTester account will be created for them and a password will be assigned.

**Record this email and password for future testing!**

- ▶ If you already have a testing account, then skip to the next slide

Tangix TesterPRO Client for Dassault Systèmes SOLIDWORKS®

**Candidate Information**  
Please complete the required fields below.

I already have a VirtualTester UserID and password

I do not have a VirtualTester UserID. Create one with the following information:

\* First Name:  \* Required field

\* Last Name:

\* Company / School:

\* E-mail:

\* Password:  confirm

\* Address 1:

Address 2:

\* City:

State / Province:

\* Postal Code:

\* Country:   All

List in Online Directory of Certified Users

Exit

8.0.3.1091

SOLIDWORKS® is a registered trademark of Dassault Systèmes SOLIDWORKS Corp.

Continue



# Test Day...Logging in the Tester Client as an existing user

- ▶ Login with your existing registered email and testing password
- ▶ If you forget your password then enter anything in the Password field and hit Continue. You will then be directed to a Password Recovery page

Tangix TesterPRO Client for Dassault Systèmes SOLIDWORKS®

**Candidate Information**  
Connect to VirtualTester

**SOLIDWORKS**

I already have a VirtualTester UserID and password

E-mail:

Password:

I do not have a VirtualTester UserID. Create one with the following information:

Exit

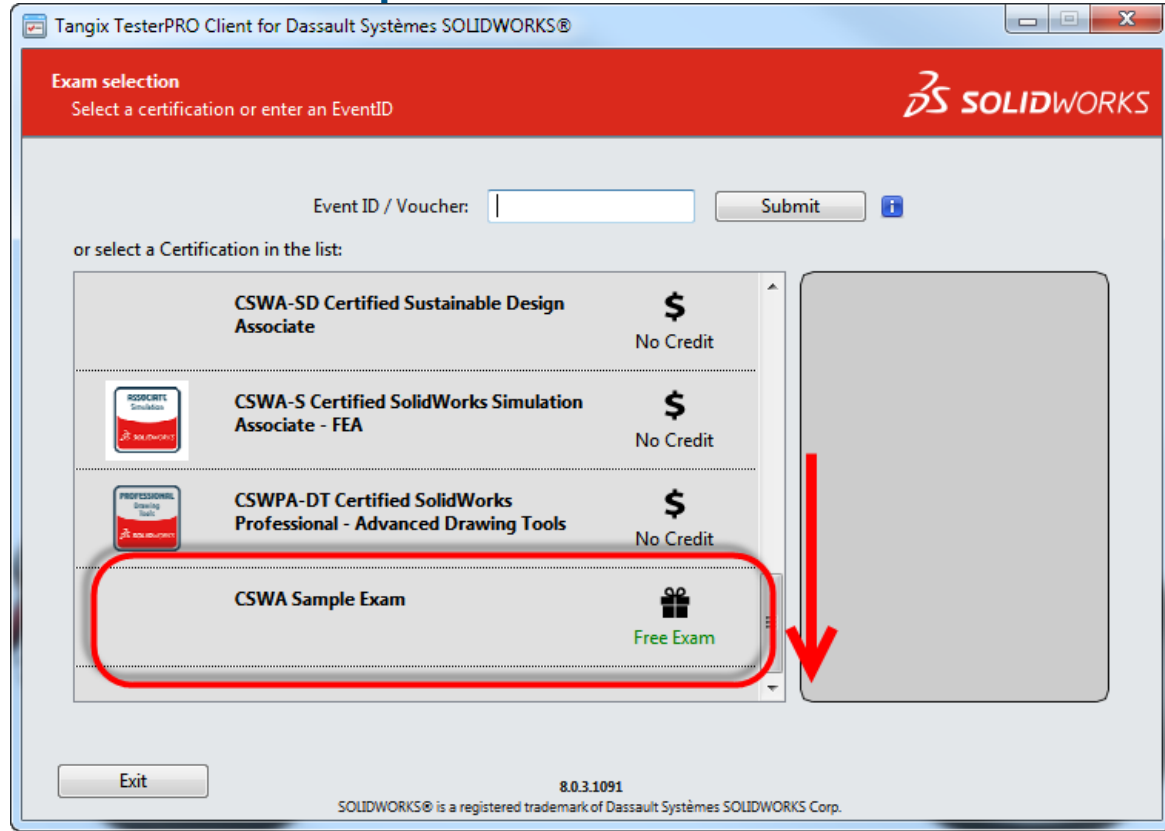
8.0.3.1091

Continue

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# Test Day...the on-line CSWA Sample Exam

- ▶ After logging into the testing client scroll down the list of exams that show up
- ▶ Click on the Free Exam icon and then Start Exam in the next window
- ▶ The Sample Exam will be available until the user passes
- ▶ No certificates will be issued for passing the Sample CSWA Exam
- ▶ If you are taking the real CSWA exam, then skip to the next slide



# Test Day...the real CSWA Exam

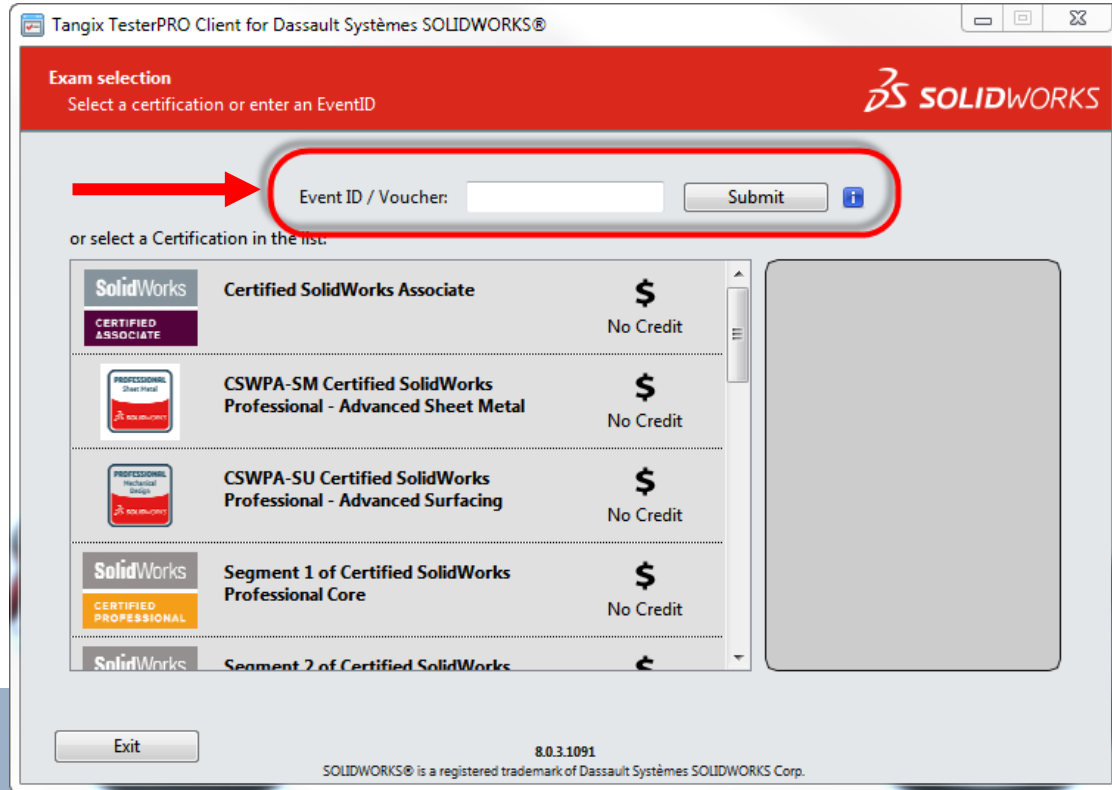
- ▶ After the login screen, you will get to the page where the tests are listed

## IMPORTANT!!!

Your students will see all kinds of exams available, including CSWA, CSWP, advanced exams, etc.

But they will also see red No Credit icons indicating they have 'no credit' to take an exam. (since they did not use our web store to purchase these products)

That is where the 'voucher' comes in.....have them enter the voucher code you gave them in the box labeled '**Event ID/Voucher:**'

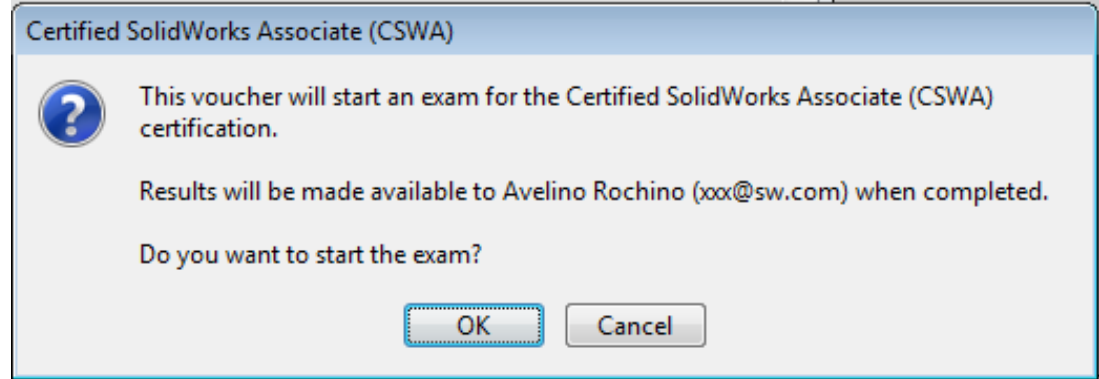


# Test Day...the real CSWA Exam

## IMPORTANT!!!

Once they enter the voucher code you supplied them with, they will be prompted to start the exam. If the voucher they enter is a Trackable Voucher then they will be warned that their results will be shared with the person who supplied them with the voucher.

Once they hit Continue and then select the language in which to do the exam they will have 3 hours to complete the test.



# Inside the CSWA Exam

- ▶ The Certified SolidWorks Associate (CSWA) examination is a three hour hands-on proficiency test that proves a user knows the fundamental skills and techniques for building parts and assemblies in SolidWorks.
- ▶ A minimum of 70% score is required to pass
- ▶ The user must complete the following:
  - ▷ Multiple choice questions on drawing view knowledge
  - ▷ Three (3) core modeling parts
  - ▷ Two (2) bottom-up assemblies

# Inside the CSWA Exam: Drawing View Knowledge

- ▶ Test will ask multiple choice questions on Drawing View creation

The screenshot shows a software window titled "CSWA R3" containing a question. The question text is: "Question 1 of 14. For 5 points: A00001: Drafting Competencies - To create drawing view 'B' it is necessary to sketch a spline (as shown) on drawing view 'A' and insert which SolidWorks view type?". The main area displays a 3D model of a mechanical part with two drawing views, A and B. View A is a perspective view of the part with a blue spline sketched on its top surface. View B is a 2D drawing of the part, colored blue, showing the spline as a curved line. Below the views is a toolbar with a button highlighted in orange, which is the "Section" button. Below the toolbar are four radio button options: "Crop", "Projected", "Section", and "Detail". At the bottom of the window are navigation buttons: "Previous Question", "Reset Question", "Show Summary", and "Next Question". A timer at the bottom left shows "19:49" and a progress bar at the bottom right shows "-160:11".

# Inside the CSWA Exam: Parts

- ▶ The client issues a modeling question that includes instructions, drawings and parameters

The screenshot displays the CSWA R3 exam interface. On the left, a panel titled "Question 4 of 14" contains the following text:

For 15 points:

810501: Basic Part (Tool Block) - Step 1  
Build this part in SolidWorks.  
(Save part after each question in a different file in case it must be reviewed)

Unit system: MMGS (millimeter, gram, second)  
Decimal places: 2  
Part origin: Arbitrary  
All holes through all unless shown otherwise.  
Material: Aluminium 1060 Alloy

A = 140.00  
B = 49.00  
C = 45 degrees

What is the overall mass of the part (grams)?

Hint: If you don't find an option within 1% of your answer please re-check your solid model.

On the right, a 3D model of a blue tool block is shown. Below the model is a row of five small thumbnail images representing different views of the part. Two red arrows point from the text "Hint: Students can click on different images to show different views" to the first two thumbnails in this row.

At the bottom of the interface, there are four radio button options for the mass: 1673.08, 640.32, 505.23, and 229.19. Navigation buttons for "Previous Question", "Reset Question", "Show Summary", and "Next Question" are also visible, along with a timer showing 15:48 and a score of 7.8/2.462.

Hint: Students can click on different images to show different views

# Inside the CSWA Exam: Parts

The screenshot shows the CSWA R3 exam interface. On the left, a sidebar contains the question details: "Question 4 of 14", "For 15 points:", "B10501: Basic Part (Tool Block) - Step 1", "Build this part in SolidWorks.", "(Save part after each question in a different file in case it must be reviewed)", "Unit system: MMGS (millimeter, gram, second)", "Decimal places: 2", "Part origin: Arbitrary", "All holes through all unless shown otherwise.", "Material: Aluminium 1060 Alloy", "A = 140.00", "B = 49.00", "C = 45 degrees", and the question "What is the overall mass of the part (grams)?". A hint below reads: "Hint: If you don't find an option within 1% of your answer please re-check your solid model." Below the question are four radio button options: 1673.08, 640.32, 505.23, and 229.19. At the bottom are navigation buttons: "Previous Question", "Reset Question", "Show Summary", and "Next Question". A timer shows 24:50 and a score of -155:10.

The main area displays a technical drawing of a part with the following dimensions: a top width of 35, a vertical distance of 10 from the top edge to a horizontal line, a vertical distance of 17 from that horizontal line to the bottom edge, and a total vertical height of 35.50. A fillet with a radius of R5.50 is shown on the left side. A hole with diameter C is located on the bottom edge. A red arrow points to the zoom and pan icons in the top-left corner of the drawing area.

Hint: Students can click in the image itself to zoom and pan



# Inside the CSWA Exam: Assembly

- ▶ Test will instruct user on building basic assemblies using downloaded parts

The screenshot displays the CSWA R3 exam interface. On the left, a text box contains the following information:

**Question 8 of 14**  
For 30 points:  
E11801: Build this assembly in SolidWorks (Connecting Rod Assembly)  
It contains 1 Base (1), 2 Wheel\_Components (2), 2 Connecting\_Rods (3), and 1 Connecting\_Block (4).  
Unit system: MMGS (millimeter, gram, second)  
Decimal places: 2  
Assembly origin: Arbitrary  
-Download the attached zip file and open it.  
-Save the contained parts and open those parts in SolidWorks. (Note: If SolidWorks prompts "Do you want to proceed with feature recognition?", please click "No".)

Below the text is an attachment labeled "Connecting\_Rod\_Assembly.zip (166.7 kB)".

The main area shows a 3D assembly of a connecting rod mechanism. The parts are numbered: 1 (Base), 2 (Wheel\_Components), 3 (Connecting\_Rods), and 4 (Connecting\_Block). Below the 3D view are four small thumbnail images of the assembly from different angles.

At the bottom, there are four radio button options for the score: 20.15, 22.92, 27.98, and 24.32. The 24.32 option is selected.

The bottom navigation bar includes buttons for "Previous Question", "Reset Question", "Show Summary", and "Next Question". A progress indicator shows 29:06 remaining out of a total of 150:54. The question ID is 7.8.2.462.

# Inside the CSWA Exam: Finishing

- ▶ Upon completion the user will be informed of their score and whether they passed or not
- ▶ If the user passed the real CSWA exam the certificate will be available right away

CSWA R3 - Examination Result

**Congratulations, you passed! You scored 190 out of 240**

CSWA R3  
CSWAR3v7

**Joe Worker**

Tuesday, April 02, 2013  
Exam duration 38 minutes

**Points**

- You scored 190 points
- 165 points or more to pass
- Max score 240
- 14 questions in total

**Strong Topics**

- Drafting Competencies
- Advanced Part Problem
- Assembly Problems
- Basic Part Problem Set

Unanswered (1 question)

Wrong Answers (2 questions)

Correct Answers (11 questions)

Exit

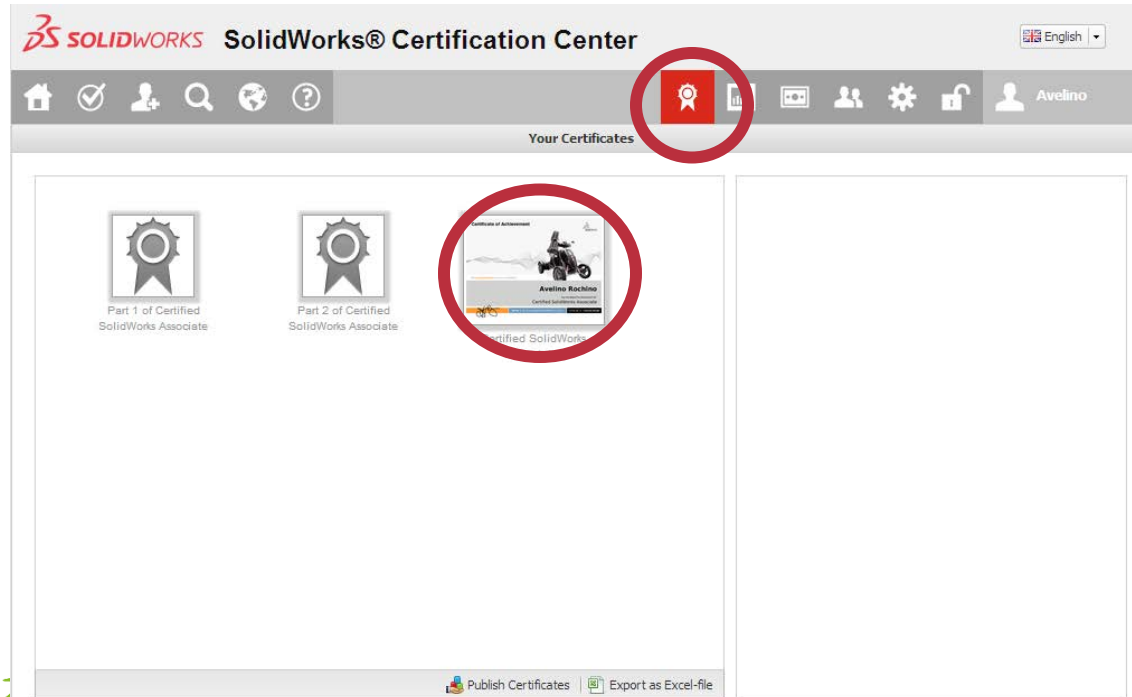
7.8.2.462

Download Certificate



# Online certificate access (PDF download)

- ▶ The student can also access their account at the SolidWorks Certification portal:
- ▶ <http://www.virtualtester.com/solidworks>



Hint: To view and print their certificates, after logging in they must click on the “Certificates” button and click on their certificate they wish to download.

# Tracking the students' results of the CSWA exam...

- ▶ After the students take the CSWA exam you can log back into your account and click on the "Team Info" tab.

The screenshot displays the 'Your Team's Information' page in the Dassault Systems software. The 'Tracking Vouchers' tab is active, showing a 'Tracking Tag' dropdown menu set to 'ME101 Class Final Ex'. Below this, a table lists exam results for 'Joe Worker' with a score of 190. At the bottom, a horizontal bar chart shows the percentage of correct answers for different exam sections: Basic Part Problem Set (100%), Intermediate Part Problem Set (100%), Drafting Competencies (67%), Advanced Part Problem (67%), and Assembly Problems (75%).

Fullname	Email	Exam Subject	Tracking Tag	Score	Points to Pass	Result	Exam Started	Duration
Joe Worker	joe@sw.com	CSWA R3	ME101 Class ...	190	165	PASSED	04/02/2013 4:1...	38 min

Section	Correct Answers (%)
Basic Part Problem Set	100
Intermediate Part Problem Set	100
Drafting Competencies	67
Advanced Part Problem	67
Assembly Problems	75

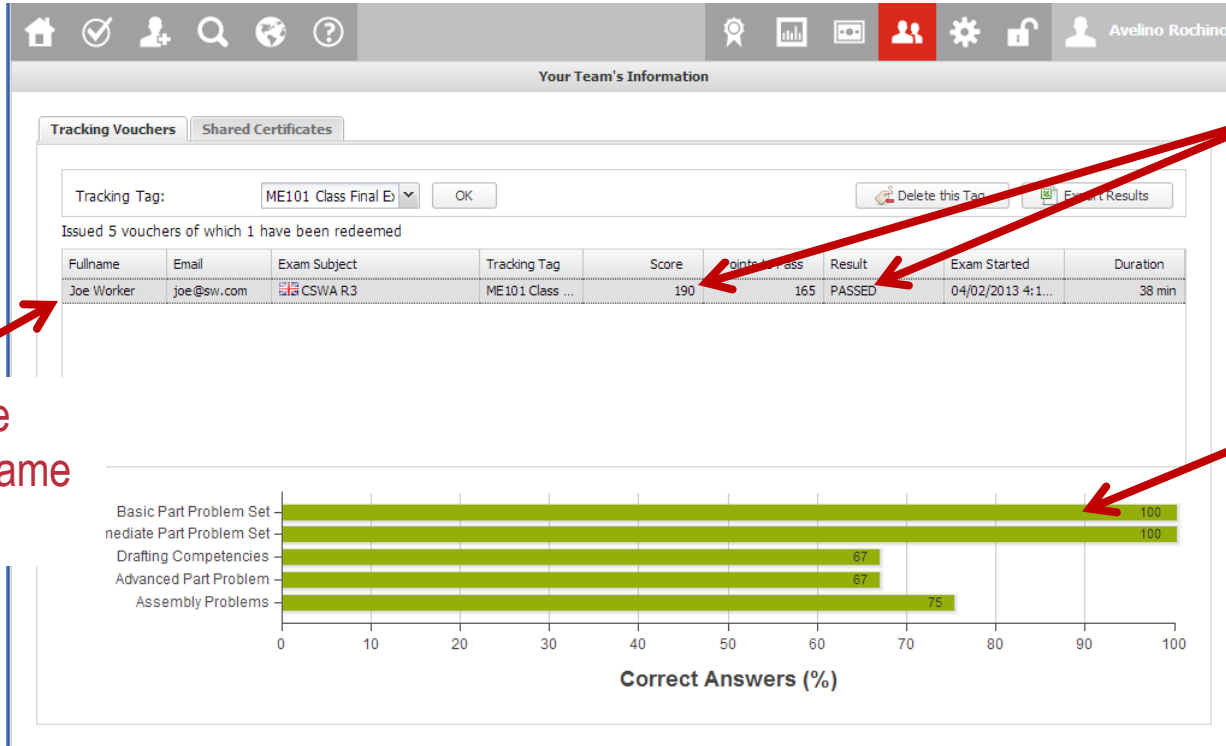
Click on the Tracking Vouchers tab

Click on the Tracking Tag pull-down menu to select the group tag and hit OK

Hint: Selecting the Tracking Tag will display only the students who have used the Tracking Vouchers associated with that tag

# Tracking the students' results of the CSWA exam...

- ▶ The score, date and time of the student's exam is displayed.



The system will show user's score and if they passed

Click on the student's name

A display will show how the user did on individual topics of the CSWA exam

# Tracking the students' results of the CSWA exam...

- ▶ You can export ALL of the results to a spreadsheet

Click on the Export Results button

Fullname	Email	Exam Subject	Tracking Tag	Score	Points to Pass	Result	Exam Started	Duration
Joe Worker	joe@sw.com	CSWA R3	ME101 Class ...	190	165	PASSED	04/02/2013 4:1...	38 min

An Excel file will be created with all the students' scores and how they did in each topic

	A	B	C	D	E	F	G	H	I	J	K
1	Firstname	Lastname	Email	Exam Subject	Score	Points to Pass	Result	Exam Started	Duration (min)		
2	Jeremy	Luchini	certificati	CSWA R2	40	70	FAILED	2009-03-03 16:11:37	1		
3	Avelino	Rochino	avelino_r	CSWA R2	45	70	FAILED	2009-03-03 16:18:52	2		
4											
5	Firstname	Lastname	Email	Score	Assembly Creation	Drawing View Knowledge	Mass Properties	Mate Creation	Material Propert	Part Modeling	SimulationXpress
6	Jeremy	Luchini	certificati	40	0	100	50	0	33	50	100
7	Avelino	Rochino	avelino_r	45	100	100	0	100	33	0	50
8											

# Tracking the students' results of the CSWA exam...

- Hint: After exporting all the results to an Excel spread sheet, you can study the results to see in which topics the class did well and which topics the class might have struggled.

	A	B	C	D	E	F	G	H	I	J	K
1	Firstname	Lastname	Email	Exam Subject	Score	Points to Pass	Result	Exam Started	Duration (min)		
2	Jeremy	Luchini	certificati	CSWA R2	40	70	FAILED	2009-03-03 16:11:37	1		
3	Avelino	Rochino	avelino_r	CSWA R2	45	70	FAILED	2009-03-03 16:18:52	2		
4											
5	Firstname	Lastname	Email	Score	Assembly Creation	Drawing View Knowledge	Mass Properties	Mate Creation	Material Propert	Part Modeling	SimulationXpress
6	Jeremy	Luchini	certificati	40	0	100	50	0	33	50	100
7	Avelino	Rochino	avelino_r	45	100	100	0	100	33	0	50

