

# SurgTrac

## Assessor User Guide



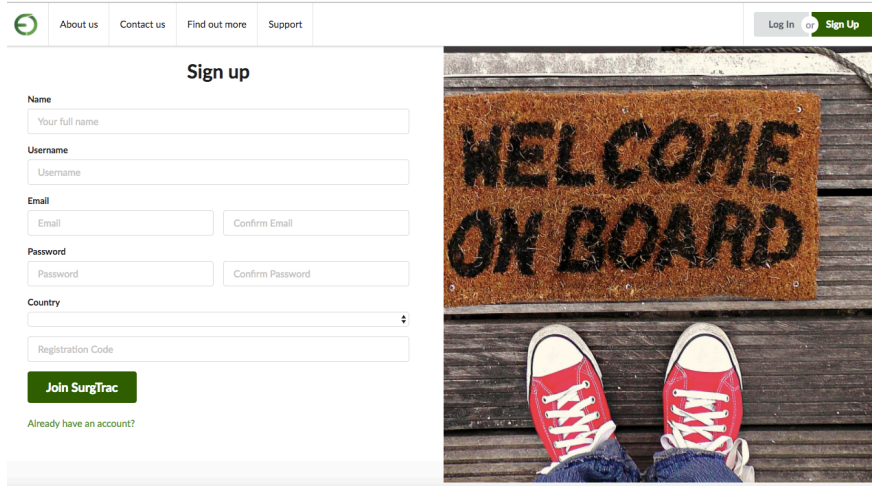
An innovation developed by [eoSurgical](https://www.eosurgical.com)

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## Set up SurgTrac account and profile

1. To create your account, go to: <https://app.surgtrac.com/#/signup>
2. Complete the relevant information on the page.

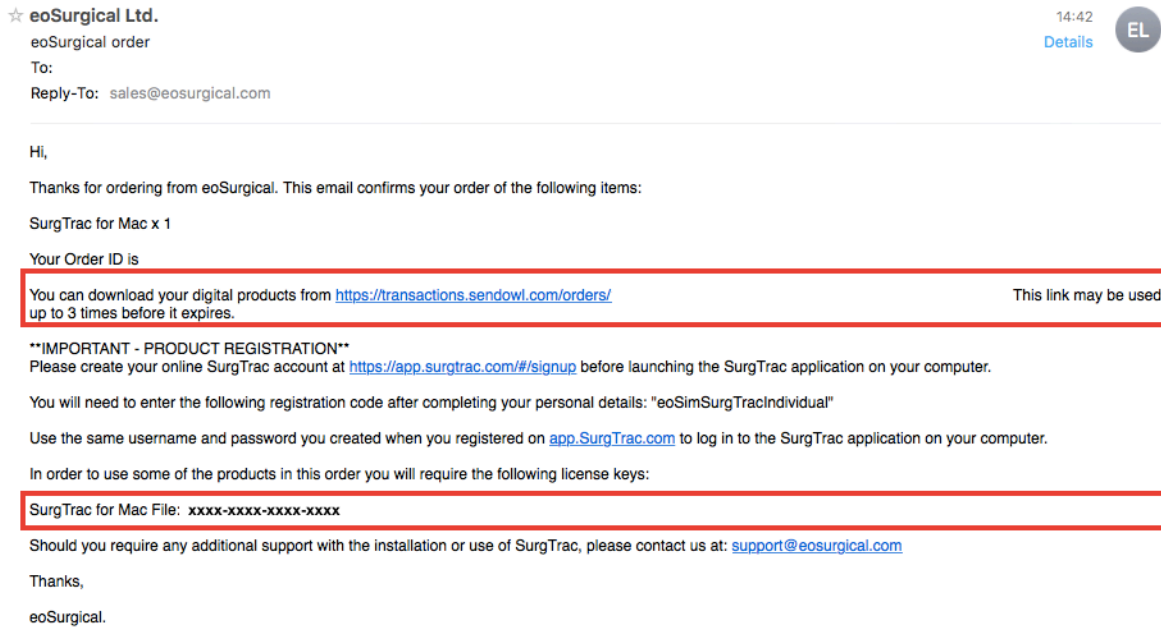


3. Enter the **assessor registration code** eoSurgical sent you for your institutional group. Please note that any account registered with an assessor code will have access to the group settings and be able to view and assess all trainees.
4. Click **Join SurgTrac** to create your account.

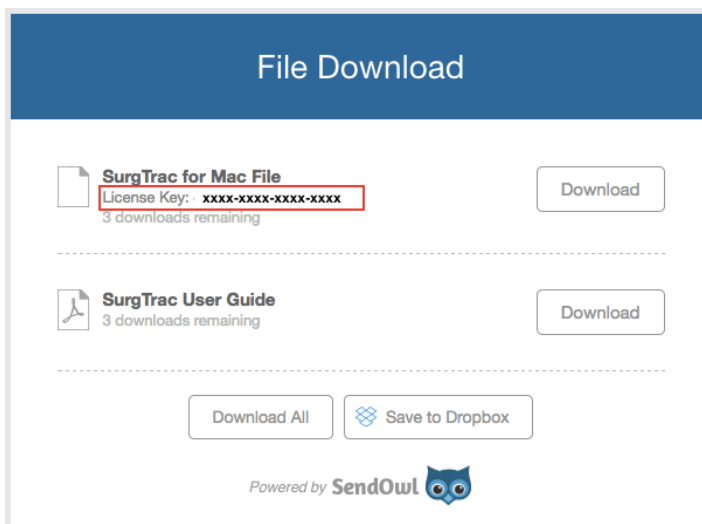
**Note:** you cannot log in to the SurgTrac application on your computer until you have registered online.

# Download and install SurgTrac software

eoSurgical will send you a download link for the SurgTrac software. The email will contain the subject line **eoSurgical Order**. This email contains a link to download SurgTrac and the **Product Key** number.



Click on the link following the “you can download your digital products from”. You will also be able to find the **Product Key** when you’re redirected to the download page.



Before installing SurgTrac, we recommend updating your laptop or Surface Pro 4 tablet to the latest version of your Operating System (OS) to ensure optimal performance.

## SurgTrac for Windows installation (Windows 7 or later only)

Recommended system specifications for Windows:

- Intel 2nd Gen i5 2.0GHz or newer
- 4GB RAM
- Windows 7 or newer

Minimum system specifications for Windows:

- Intel 2nd Gen i3 2.0GHz or newer
- 4GB RAM
- Windows 7 or newer

1. Download and install the K-Lite codec pack using the link below (click on **Mirror 1** to download):  
[http://www.codecguide.com/download\\_k-lite\\_codec\\_pack\\_basic.htm](http://www.codecguide.com/download_k-lite_codec_pack_basic.htm)
2. Once the K-Lite file has downloaded, click on **Run** to install the codecs.
3. Download the **SurgTrac ZIP** file to your PC.
4. Extract the **ZIP** file (right click and select **Extract All**).
5. In the new folder where the extracted files are saved to, double-click on the file **SurgTracSetup.exe**.
6. Do you want to allow this app to make changes to your PC? Click **Yes**.
7. Welcome to SurgTrac set up. Click **Next**.
8. Click **Install**
9. Click **Finish**
10. **Launch SurgTrac**
11. A Windows Firewall pop up may appear: please tick the box to **Allow Electron to communicate on Private networks**, and then click on **Allow access**.

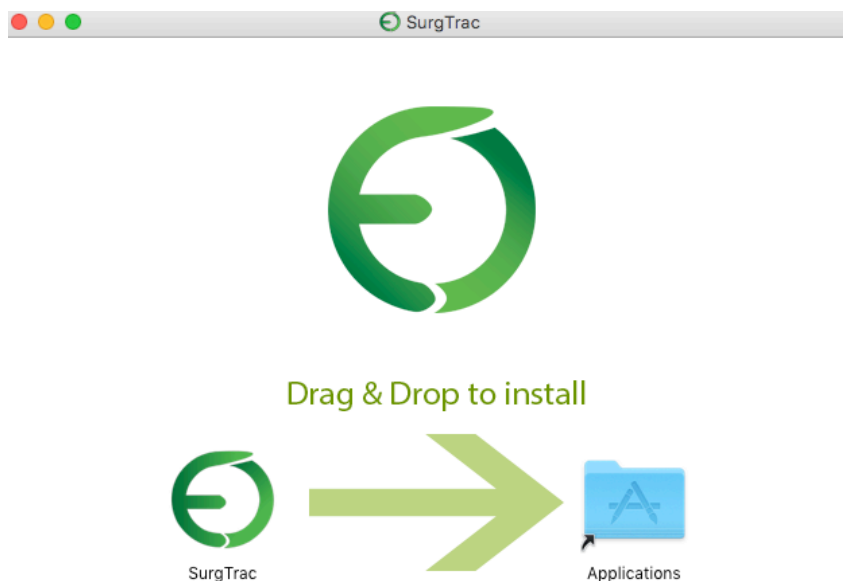
The screenshot shows the Codec Guide website interface. On the left is a navigation menu with links for General, News, Links, Guides, Support, Forum, F.A.Q., K-Lite Codec Pack, Information, Download, Other downloads, Overview, VLC Player, and Windows Media Codecs. The main content area is titled 'Download K-Lite Codec Pack Basic' and includes a 'Start Download (Free)' button. Below this, there is a 'Download:' section with a table of mirrors. A yellow arrow points to 'Mirror 1' in the table. The table also includes columns for 'Type', 'Location', and 'Hosted By'. The 'Hosted By' column for 'Mirror 1' is 'Codec Guide'. The 'File name' is 'K-Lite\_Codec\_Pack\_1242\_Basic.exe', the 'Size' is '1,3853 KB', the 'MD5' is '5f6350c5912ee9c772e50cb60c7c9c7', and the 'SHA256' is '5fa1a100117a22f63cfc6a0ead9fb56b911cf11b96e5bdd9dfdd5d149b53fc3'. A 'FREE delivery' badge is visible in the bottom left corner of the screenshot.

## SurgTrac for Mac installation (OS X 10.8 or later only)

Recommendation specification for Macs:

- OS 10.8 or newer
- MacBook Pro 2010 or newer
- MacBook Air 2014 or newer

1. Double-click on the **.dmg file**. This should open a new window, with the SurgTrac icon.
2. Drag the SurgTrac icon to your **Applications** folder. SurgTrac will install in the **Applications** folder.



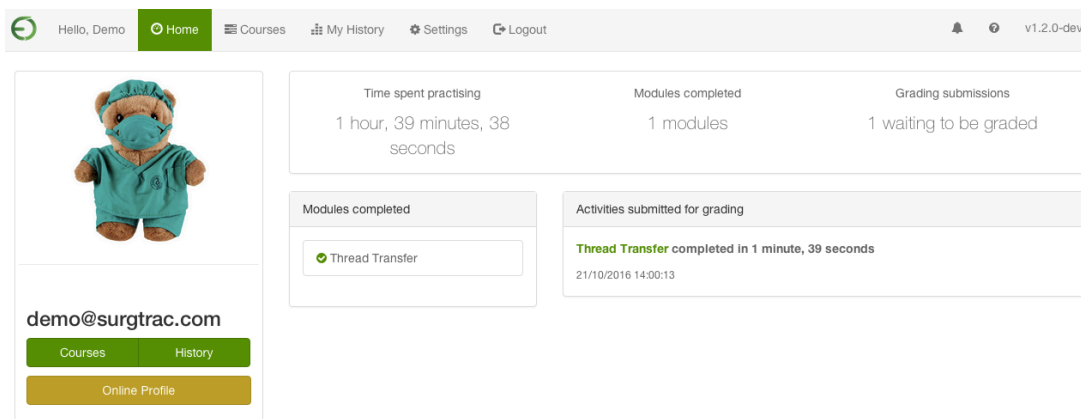
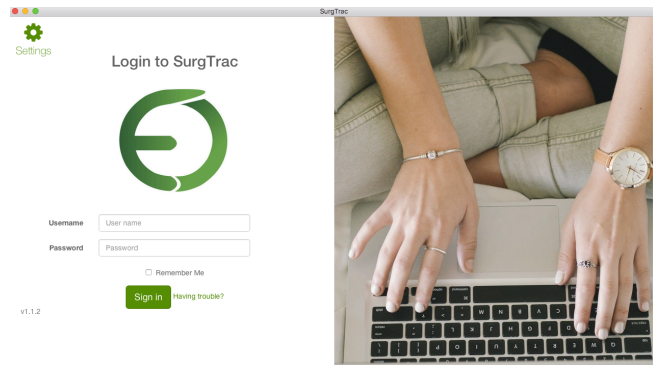
3. If you receive a messaging saying “SurgTrac is an application downloaded from the internet. Are you sure you want to open it?”, click **Open**. (You can also change your settings by clicking **System Preferences > Security & Privacy > General >** under **Allow apps downloaded from** choose **Anywhere**).
4. Launch SurgTrac from the **Applications** folder.
5. If you receive a message saying “Do you want the application “SurgTrac.app” to accept incoming network connections? Click **Allow**. This message will appear every time you open SurgTrac.

**Note:** If you are running MacOS Sierra, you may be prompted with with a message saying “SurgTrac can’t be opened because it is from an unidentified developer.” You can open SurgTrac by going to **System Preferences > Security & Privacy > Open Anyway**.

# SurgTrac Software

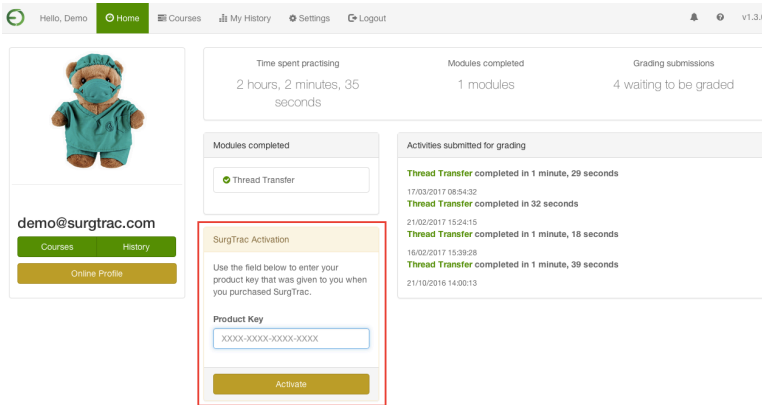
## Launch SurgTrac

1. Close all other applications (e.g. Chrome, Microsoft Word).
2. Plug computer into a mains power supply (restart computer if it seems to be running with a lag).
3. Connect to the internet before launching SurgTrac for the first time. SurgTrac requires an internet connection during your first login to download your user information, courses, and to enter the product key. After the initial connection, SurgTrac can then be used offline if no internet connection is available.
4. Open the SurgTrac application on your computer.
5. Enter the same username and password you created on <https://app.surgtrac.com/#/> to log in to SurgTrac on your computer. These two logins will always be the same.
6. You will then be directed to your candidate dashboard.

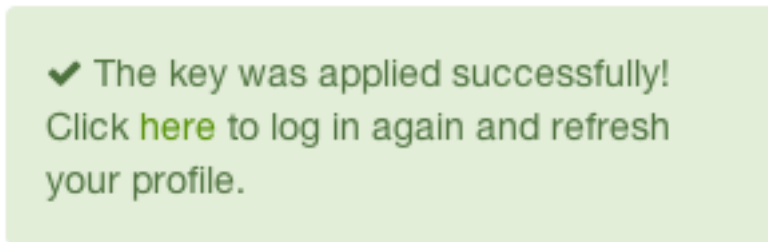


# Product Key

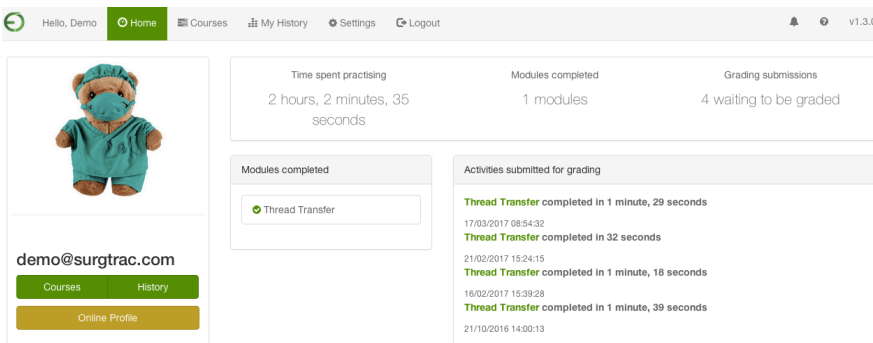
1. Connect to the internet.
2. On your dashboard, enter the **Product Key**. You can find your product key number in the email from eoSurgical with subject line **eoSurgical Order**.
3. Click **Activate**



4. After entering the Product Key, you must log in again to refresh your profile and to access your courses. Click **here** to login again.



5. You will then be redirected your user dashboard.





6. If you do not refresh your profile by logging in again, you will not be able to access to the course information.

The screenshot shows a web application interface for SurgTrac. At the top, there is a navigation bar with a home icon, the text "Hello, Demo", a home link, a "Courses" link (highlighted in green), a "My History" link, a "Settings" link, and a "Logout" link. On the right side of the navigation bar, there are notification and user profile icons, and the version number "v1.3.0".

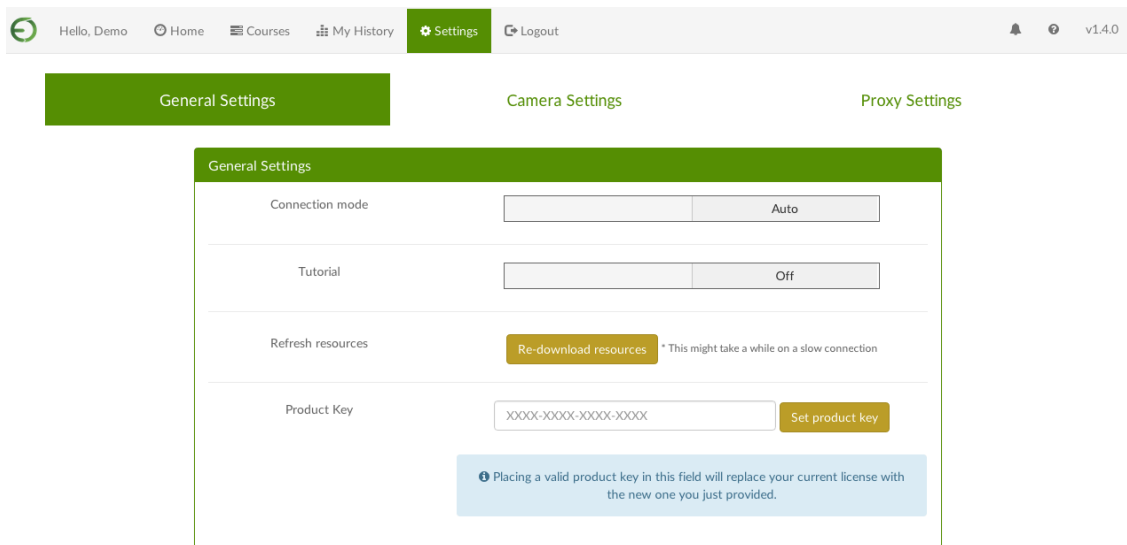
Below the navigation bar, the heading "Select a course" is centered. There are three course cards displayed:

- SurgTrac Core:** A structured training course taking you from novice to skilled laparoscopic instrument handler. Challenge yourself to achieve one of three attainment levels. On completion of all six modules your performances will be assessed and a certificate issued. Your license does not include this course. [Click here to find out more.](#)
- SurgTrac Advanced:** Advance your laparoscopic skills. Improve your precise instrument control. Structured, remotely assessed distance-learning. With certificate issued on achievement of the target performance metrics. Your license does not include this course. [Click here to find out more.](#)
- SurgTrac Elite:** Take your laparoscopic skills to the next level. Challenging suturing tasks including end-to-end anastomosis, slip knots and suturing at difficult angles. Suitable for even the most experienced laparoscopist to hone their skills. Your license does not include this course. [Click here to find out more.](#)

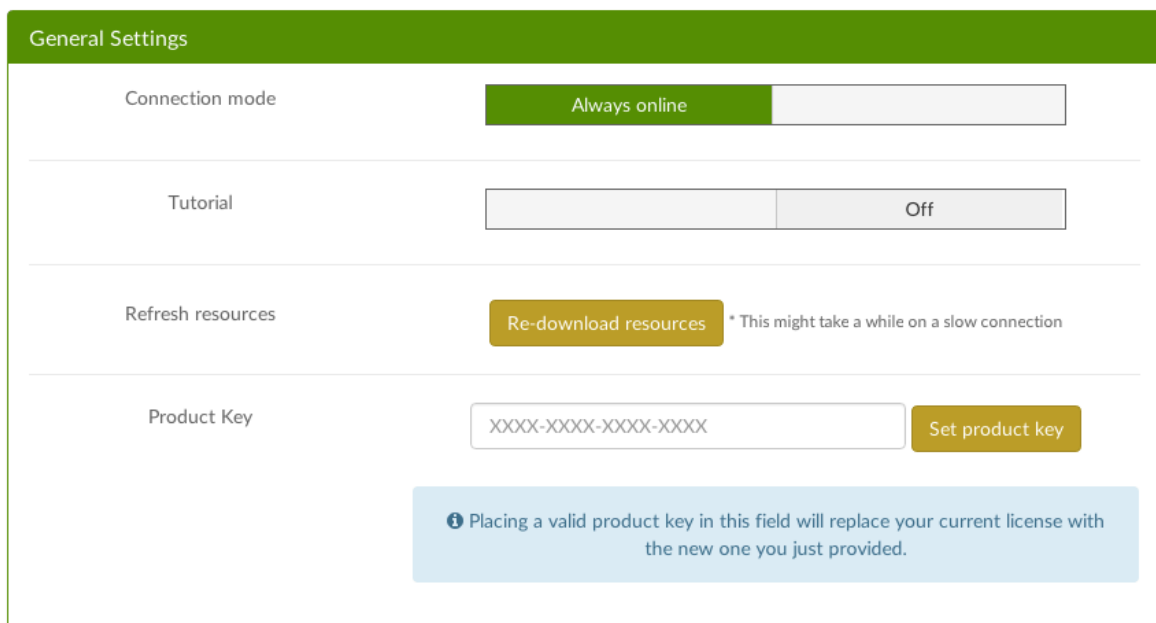
# General Settings

## Connection mode

You can set the connection mode to **Auto** to enable SurgTrac to connect to the internet automatically. We recommend leaving the setting mode on **Auto**. This means you can use SurgTrac online and offline without having to change the settings.



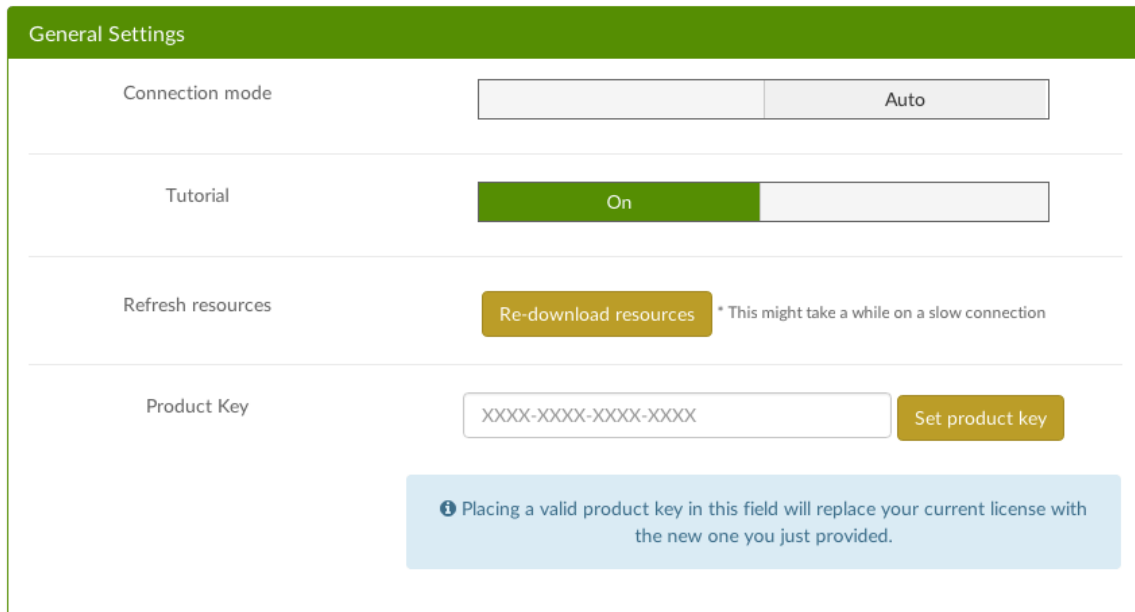
The connection mode for SurgTrac can be set to **Always online** when SurgTrac cannot connect to the internet even though you are connected to a working internet connection.



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## Tutorial

If you would like to go through the tutorial again, click **On**. Click **Off** to end the tutorial.



The screenshot shows the 'General Settings' window with a green header. It contains four rows of settings:

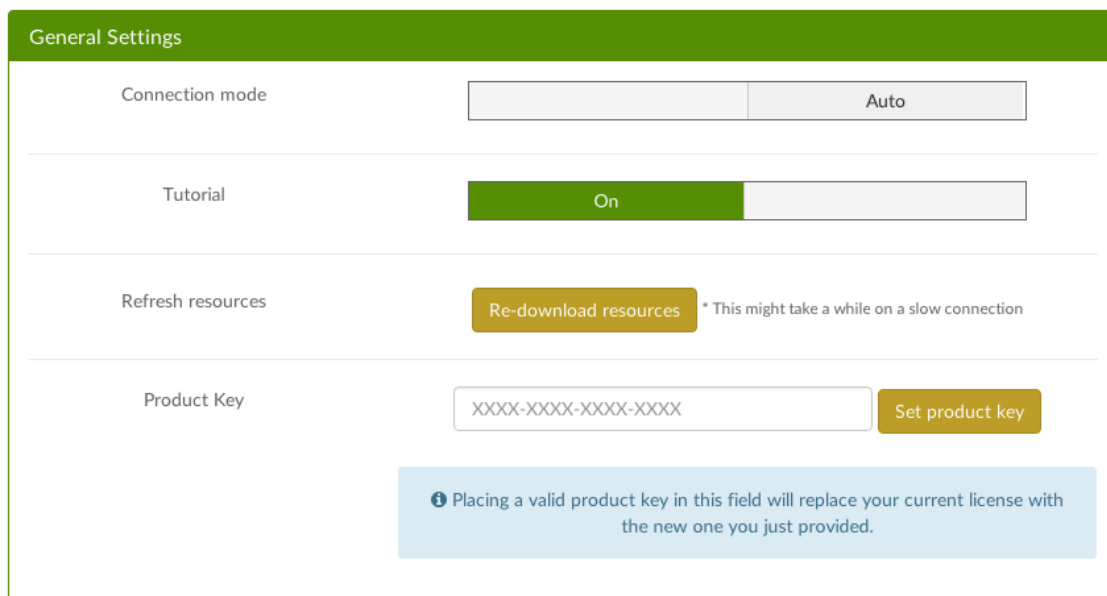
- Connection mode:** A dropdown menu with 'Auto' selected.
- Tutorial:** A toggle switch that is currently turned 'On' (indicated by a green bar).
- Refresh resources:** A button labeled 'Re-download resources' with a note: '\* This might take a while on a slow connection'.
- Product Key:** A text input field containing 'XXXX-XXXX-XXXX-XXXX' and a 'Set product key' button.

At the bottom, there is a light blue information box with an 'i' icon and the text: 'Placing a valid product key in this field will replace your current license with the new one you just provided.'

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## Refresh Resources

If the tutorial videos were not download properly during installation, click **Re-download resources** to download them again.



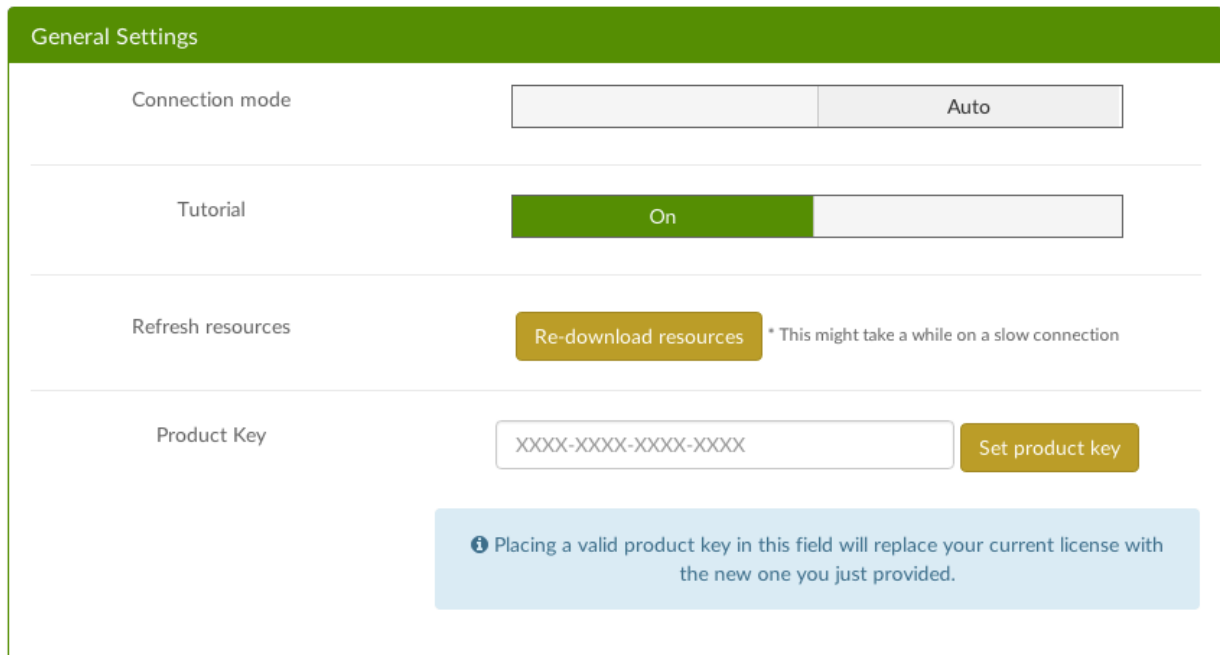
This screenshot is identical to the one above, showing the 'General Settings' window. The 'Refresh resources' button is highlighted, indicating the user should click it to re-download resources.

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## Product Key

If you have not entered the product key on your dashboard, you can also enter it through the **General Settings**.

### 1. Enter the **Product Key**



The screenshot shows the 'General Settings' interface. It features a green header bar with the text 'General Settings'. Below the header, there are four rows of settings:

- Connection mode:** A dropdown menu with 'Auto' selected.
- Tutorial:** A toggle switch that is currently turned 'On' (indicated by a green bar).
- Refresh resources:** A button labeled 'Re-download resources' with a note: '\* This might take a while on a slow connection'.
- Product Key:** A text input field containing the placeholder 'XXXX-XXXX-XXXX-XXXX' and a button labeled 'Set product key'.

At the bottom of the settings area, there is a light blue informational box with an information icon and the text: 'Placing a valid product key in this field will replace your current license with the new one you just provided.'

### 2. Click **Set product key**

3. Placing a valid product key in this field will replace your current license with the new one you just provided. For example, if you upgrade from SurgTrac Core to Advanced, you will need to enter your new product key to access the Advanced courses.

# Proxy Settings

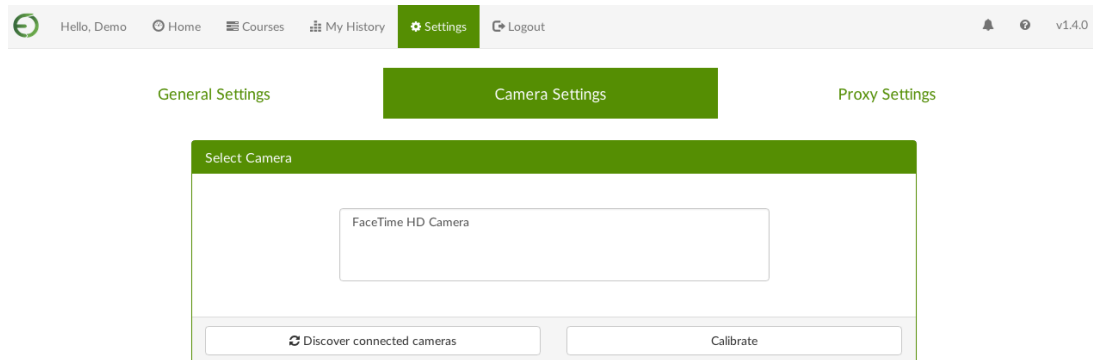
If you are using SurgTrac on a computer that accesses the internet via a proxy server, you will need to update the proxy server settings. Click **Settings > Proxy Settings**. Please consult with your IT department for details of the settings required for your institution.

The screenshot shows the SurgTrac interface with the following elements:

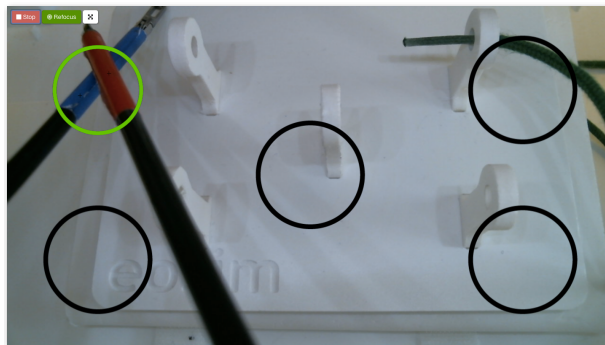
- Navigation bar: Hello, Demo | Home | Courses | My History | **Settings** | Logout
- Version: v1.2.0-dev
- Settings tabs: General Settings | Camera Settings | **Proxy Settings**
- Proxy Settings form:
  - Host: Host IP address
  - Port: Port number
  - Proxy server requires username and password
  - Username: Username
  - Password: Password
  - Active:  Yes  No
  - Save settings

## Calibration of instruments

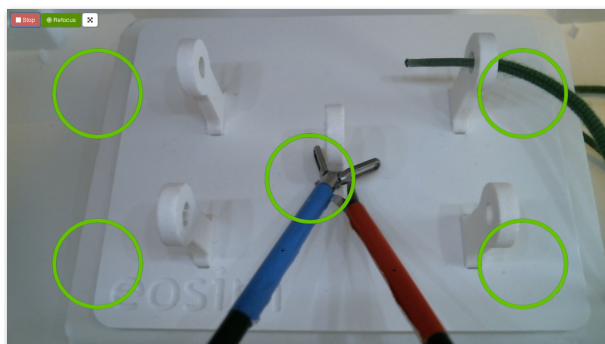
1. In the SurgTrac software, go to **Settings**.
2. Select **Camera settings > Logitech camera**. If the Logitech camera does not appear in the device list, unplug and plug the webcam into your computer again. Click **Discover connected cameras**.



3. Click **Calibrate** to ensure the lighting and tracking settings are working.
4. You should see a small '+' hovering above each red and blue stickers on the instruments.
5. Move the instruments to put both '+' into each black circle in turn. The black circle will turn yellow when both '+' are in the circle.

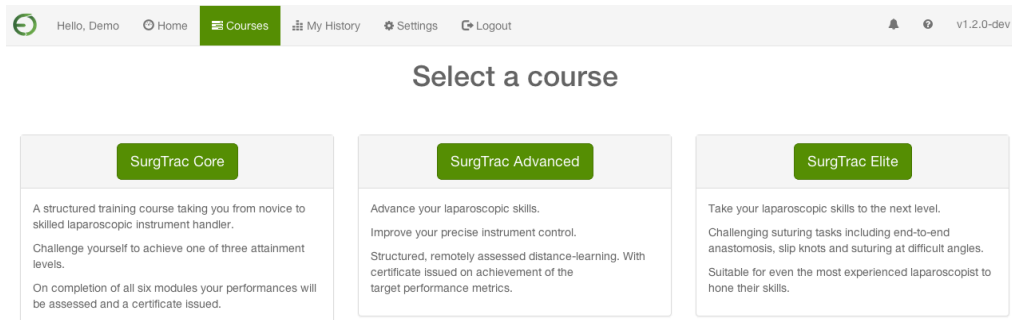


6. Wait until the circle turns **green** before moving onto the next circle.
7. Calibration on is complete when all the circles are **green**.

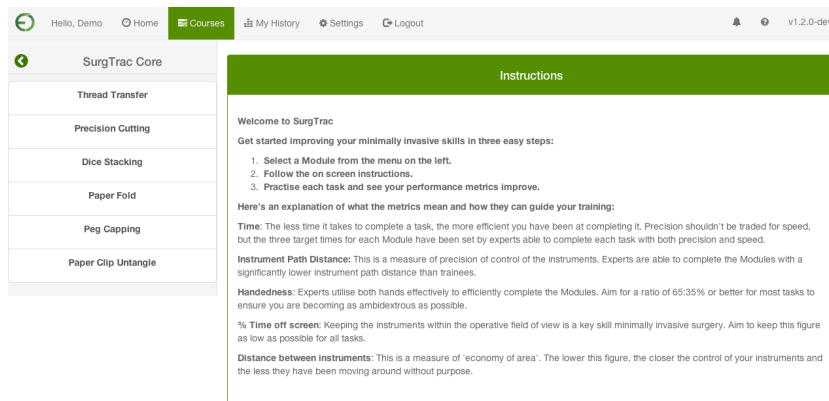


# Courses and modules

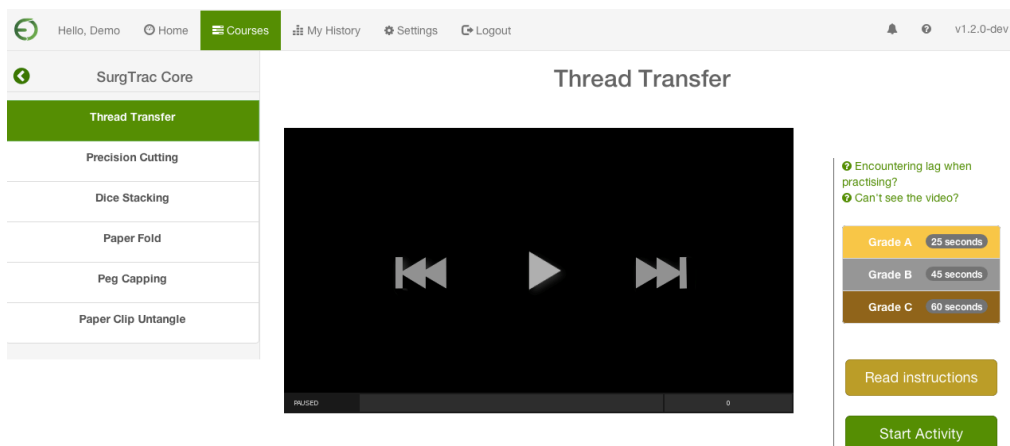
1. Click on the **Courses** tab and select a course (e.g SurgTrac Core).



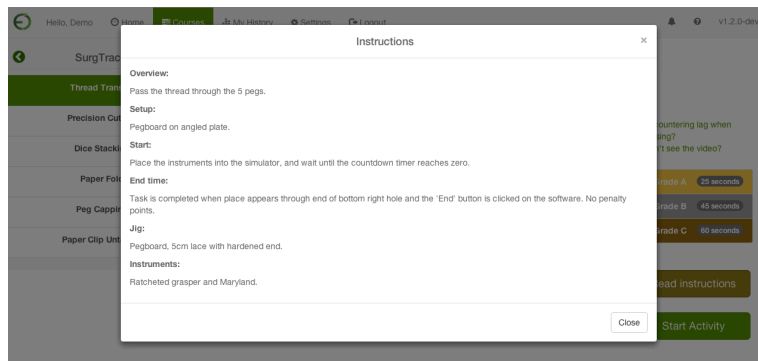
2. You will be directed to the course page (e.g. SurgTrac Core).



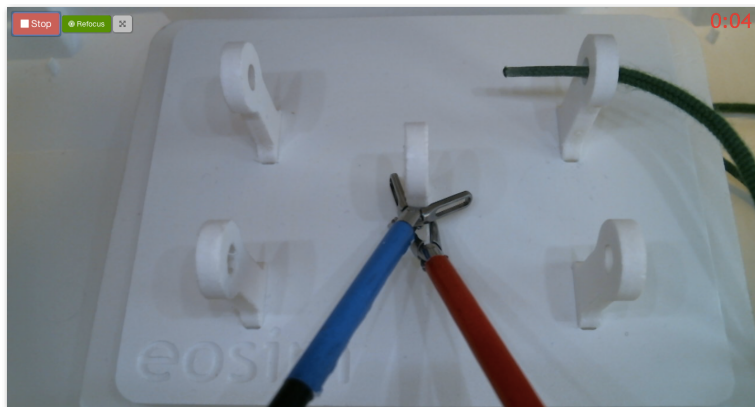
3. Choose a module (e.g. Thread Transfer).
4. Watch the demo video. The target times are to the right of the video.



5. Click **Read instructions** for the written instructions and click **Close** when finished.



6. Click **Start Activity** to begin practising. Wait for the countdown timer in the top right of the screen to turn white. Start the activity when the countdown reaches **0:00**.



7. When finished, press the **space bar** to end or click the **STOP** button in the top left corner.
8. Click **Yes** if you completed the activity or click **No** if you did not. Type in the comment box in order to **add a note to the activity**. You can later change the status of the activity and notes in the **My History** section.

Activity Ended

Add a note to the activity

Have you completed the activity?



9. Review your metrics and feedback to understand how to improve your skills. Your metrics are automatically uploaded to <https://app.surgtrac.com/#/> and a video of your activity is saved under **My History**. You can find out more about the metrics in the “**What do the metrics mean?**” section of this handbook.

Time: 78 seconds. Average: 125 seconds

**Congratulations:** that attempt was quicker than your average for previous attempts.

**Keep up the good work:** your left to right instrument path-distance is good. Continue to focus on being ambidextrous.

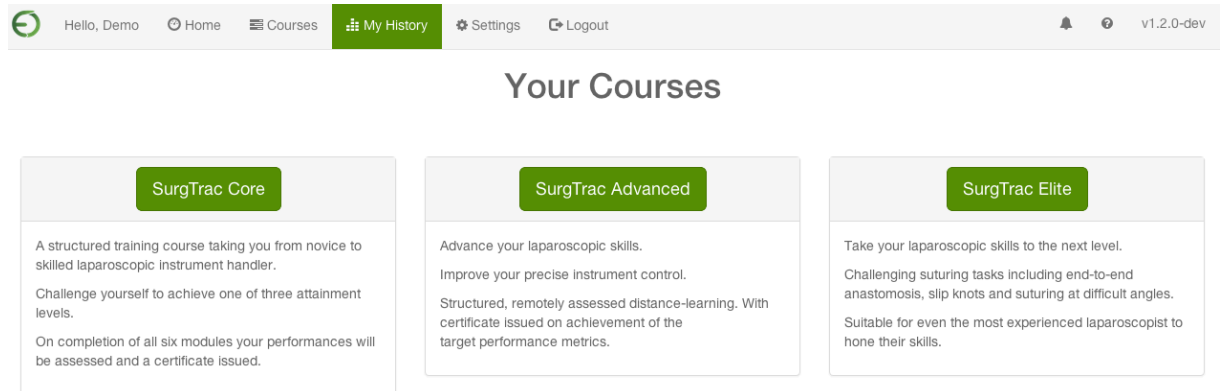
**Scope for improvement:** your instruments were off screen for >20% of the time during that task: work on keeping your instruments within the field of view.

|                   | Left[Overall] | Right[Overall] | Total[Overall] | Units             |
|-------------------|---------------|----------------|----------------|-------------------|
| Distance          | 0.88 [0.76]   | 1.06 [1.06]    | 1.94 [1.82]    | m                 |
| Handedness        | 45.36 [40.43] | 54.63 [52.94]  | 100            | %                 |
| Off Screen        | 23.97 [21.92] | 3.38 [15.94]   | 0              | %                 |
| Distance Between  | 0             | 0              | 5.87 [5.73]    | cm                |
| Speed             | 3.23 [2.59]   | 3.06 [3.48]    | 3.14 [3.03]    | mm/s              |
| Acceleration      | 1.83 [0.68]   | 1.71 [0.79]    | 1.77 [0.73]    | mm/s <sup>2</sup> |
| Motion Smoothness | 0.08 [0.04]   | 0.07 [0.05]    | 0.07 [0.05]    | mm/s <sup>3</sup> |

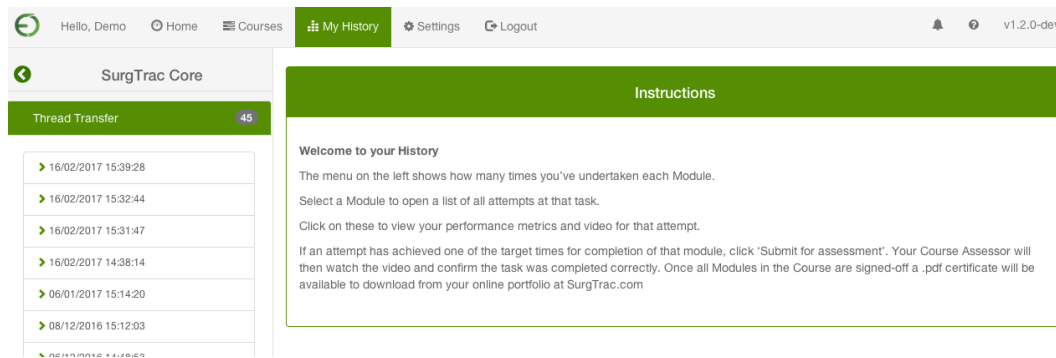
10. Click **Repeat Exercise** to practise the activity again.

# Review activities

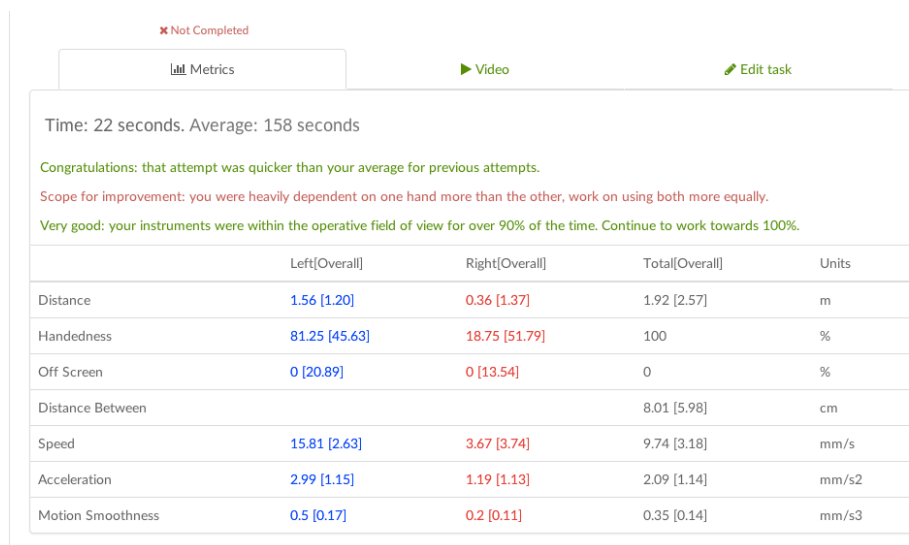
1. Click **My History** to review your data and videos. Choose a course (e.g. SurgTrac Core)



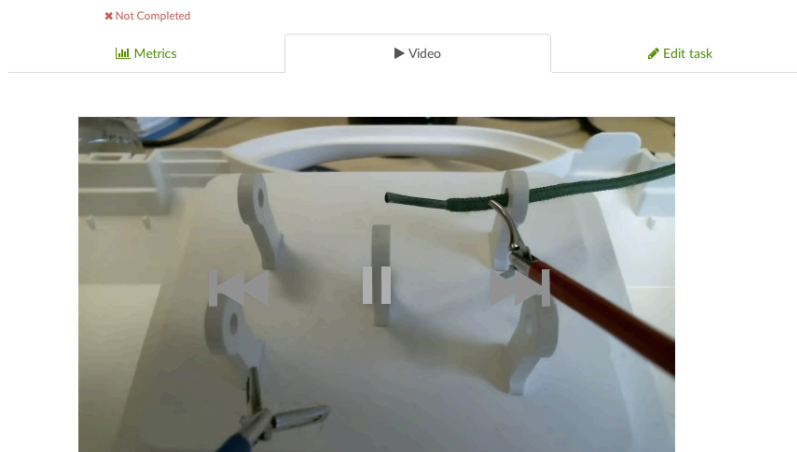
2. Select an activity (e.g. Thread Transfer).



3. Select a date and time you would like to review.
4. To review your metrics, select the **Metrics** tab.



5. To view your video, select the **Video** tab.



6. Click **Edit task** to edit your notes and to change the task from not completed or completed.

Not Completed
Metrics
Video
Edit task

Activity Note

Have you completed the task?

No

[Save details](#)

7. All your SurgTrac videos are stored on your laptop. Click on **Open Video Folder** to review/copy them.

Wed Oct 19 2016 11:33:55

[Submit video for assessment](#)
[Open Video Folder](#)

Not Completed
Metrics
Video
Edit task

Time: 22 seconds. Average: 158 seconds

Congratulations: that attempt was quicker than your average for previous attempts.

Scope for improvement: you were heavily dependent on one hand more than the other, work on using both more equally.

Very good: your instruments were within the operative field of view for over 90% of the time. Continue to work towards 100%.

|                   | Left[Overall] | Right[Overall] | Total[Overall] | Units             |
|-------------------|---------------|----------------|----------------|-------------------|
| Distance          | 1.56 [1.20]   | 0.36 [1.37]    | 1.92 [2.57]    | m                 |
| Handedness        | 81.25 [45.63] | 18.75 [51.79]  | 100            | %                 |
| Off Screen        | 0 [20.89]     | 0 [13.54]      | 0              | %                 |
| Distance Between  |               |                | 8.01 [5.98]    | cm                |
| Speed             | 15.81 [2.63]  | 3.67 [3.74]    | 9.74 [3.18]    | mm/s              |
| Acceleration      | 2.99 [1.15]   | 1.19 [1.13]    | 2.09 [1.14]    | mm/s <sup>2</sup> |
| Motion Smoothness | 0.5 [0.17]    | 0.2 [0.11]     | 0.35 [0.14]    | mm/s <sup>3</sup> |

# Submit activities to your assessor

1. After completing an activity on the SurgTrac software, click **Submit video for assessment**. This will upload the video online for our faculty or your institution to review it.

Thread Transfer

Time: 78 seconds. Average: 125 seconds

**Congratulations:** that attempt was quicker than your average for previous attempts.

**Keep up the good work:** your left to right instrument path-distance is good. Continue to focus on being ambidextrous.

**Scope for improvement:** your instruments were off screen for >20% of the time during that task; work on keeping your instruments within the field of view.

|                   | Left[Overall] | Right[Overall] | Total[Overall] | Units             |
|-------------------|---------------|----------------|----------------|-------------------|
| Distance          | 0.88 [0.76]   | 1.06 [1.06]    | 1.94 [1.82]    | m                 |
| Handedness        | 45.36 [40.43] | 54.63 [52.94]  | 100            | %                 |
| Off Screen        | 23.97 [21.82] | 3.38 [15.94]   | 0              | %                 |
| Distance Between  | 0             | 0              | 5.87 [5.73]    | cm                |
| Speed             | 3.23 [2.59]   | 3.06 [3.48]    | 3.14 [3.03]    | mm/s              |
| Acceleration      | 1.83 [0.68]   | 1.71 [0.79]    | 1.77 [0.73]    | mm/s <sup>2</sup> |
| Motion Smoothness | 0.08 [0.04]   | 0.07 [0.05]    | 0.07 [0.05]    | mm/s <sup>3</sup> |

2. If you would like to submit an older activity for assessment, go to **My History** > select your course (e.g. SurgTrac Core) > select the module (e.g. Thread Transfer) > select the specific date and time of the module > **Submit video for assessment**.

Wed Oct 19 2016 11:33:55

**Submit video for assessment** **Open Video Folder**

**Not Completed**

Metrics Video Edit task

Time: 22 seconds. Average: 158 seconds

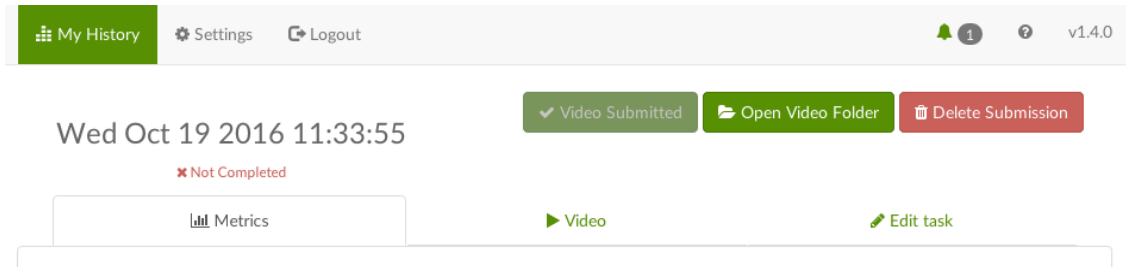
**Congratulations:** that attempt was quicker than your average for previous attempts.

**Scope for improvement:** you were heavily dependent on one hand more than the other, work on using both more equally.

**Very good:** your instruments were within the operative field of view for over 90% of the time. Continue to work towards 100%.

|                   | Left[Overall] | Right[Overall] | Total[Overall] | Units             |
|-------------------|---------------|----------------|----------------|-------------------|
| Distance          | 1.56 [1.20]   | 0.36 [1.37]    | 1.92 [2.57]    | m                 |
| Handedness        | 81.25 [45.63] | 18.75 [51.79]  | 100            | %                 |
| Off Screen        | 0 [20.89]     | 0 [13.54]      | 0              | %                 |
| Distance Between  |               |                | 8.01 [5.98]    | cm                |
| Speed             | 15.81 [2.63]  | 3.67 [3.74]    | 9.74 [3.18]    | mm/s              |
| Acceleration      | 2.99 [1.15]   | 1.19 [1.13]    | 2.09 [1.14]    | mm/s <sup>2</sup> |
| Motion Smoothness | 0.5 [0.17]    | 0.2 [0.11]     | 0.35 [0.14]    | mm/s <sup>3</sup> |

3. If you would like to delete a submission, go to **My History** > select your course > select the module > select the specific date and time of the module > **Delete Submission**.



**Note:** You can only submit 5 submissions per module (e.g. 5 submissions for the Thread Transfer module) and you must submit the videos for submission from the software.

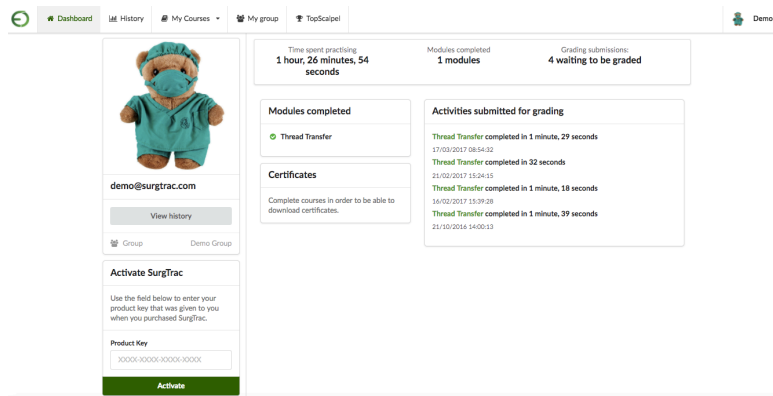
# SurgTrac Website

To view your activities and monitor your trainees on the SurgTrac website, go to <https://app.surgtrac.com/#/> and login.

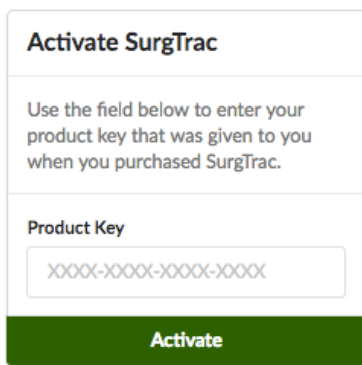
## Product Key

Enter the product key found in your email from eoSurgical with subject line **eoSurgical Order**. If you are an assessor that only uses SurgTrac to mark your trainees, you do not need to enter a product key.

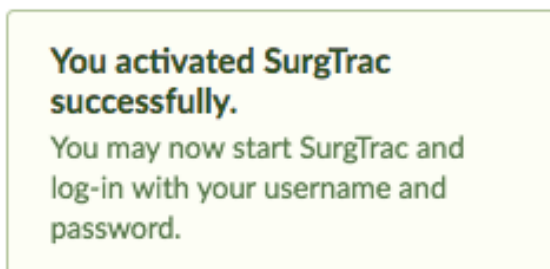
### 1. Click Dashboard



### 2. Under **Activate SurgTrac**, enter the **Product Key** and click **Activate**.



### 3. You have now activated SurgTrac.



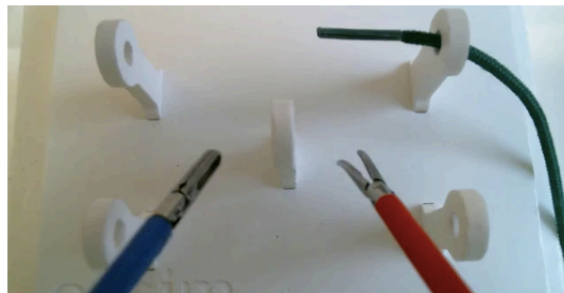
# Assessment

## Dashboard

1. Click **Assessment** > **Dashboard** to view an overview of your candidates' activities and which activities need to be graded.

4. Under **Submissions waiting to be graded**, choose the activity you would like grade. Click **Assess** to grade an activity.
5. A new window with the candidate's activity and video will appear. Watch the video to ensure the candidate has completed the activity. The instructions for the OSATs grading system are below the video.

### Assess Candidate



#### HANDLING OF INSTRUMENTS

1 - 2: Repeatedly awkward & unsure; inappropriate handling  
3 - 5: Occasionally stiff & awkward, but mostly appropriate choice & use of instruments  
6 - 7: Fluid movements & obviously familiar with the instruments

#### FLOW OF PROCEDURE

1 - 2: Frequently used unnecessary force, displacement or damage  
3 - 5: Reasonable progression through the task, demonstrated forward planning  
6 - 7: Effortless flow from one step to the next

#### RESPECT FOR TISSUES

1 - 2: Frequently stopped & seemed unsure of next move  
3 - 5: Careful handling of tissue but occasionally caused inadvertent displacement or damage  
6 - 7: Consistently handled tissues well with minimal damage

6. The target times for each activity are next to the letter grade (e.g. to score a Grade A for Thread Transfer, the candidate needs to do the activity in 25 seconds or less). Add qualitative feedback in the **Assessor Comment** box. Click **Complete Assessment** to finish grading the activity.

| HANDLING OF INSTRUMENTS   | FLOW OF PROCEDURE   | RESPECT FOR TISSUES  |
|---|---|--|
| <input type="text"/>  | <input type="text"/>  | <input type="text"/>   |
| 1 - 2: Repeatedly awkward & unsure; inappropriate handling<br>3 - 5: Occasionally stiff & awkward, but mostly appropriate choice & use of instruments<br>6 - 7: Fluid movements & obviously familiar with the instruments | 1 - 2: Frequently used unnecessary force, displacement or damage<br>3 - 5: Reasonable progression through the task, demonstrated forward planning<br>6 - 7: Effortless flow from one step to the next | 1 - 2: Frequently stopped & seemed unsure of next move<br>3 - 5: Careful handling of tissue but occasionally caused inadvertent displacement or damage<br>6 - 7: Consistently handled tissues well with minimal damage |

**Grade**

|            |            |            |      |
|------------|------------|------------|------|
| Grade A 25 | Grade B 45 | Grade C 60 | Fail |
|------------|------------|------------|------|

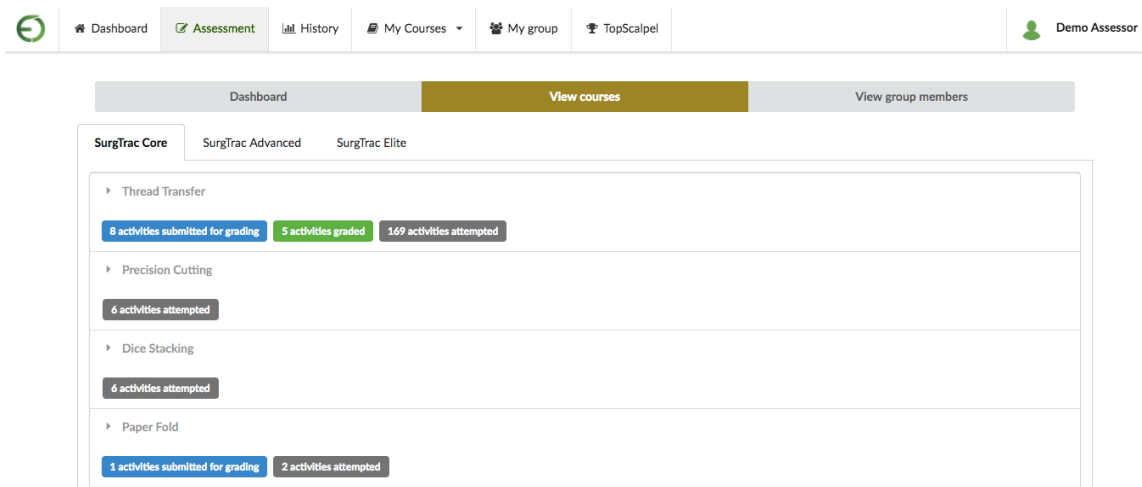
**Assessor Comment**

Cancel Complete Assessment ✓

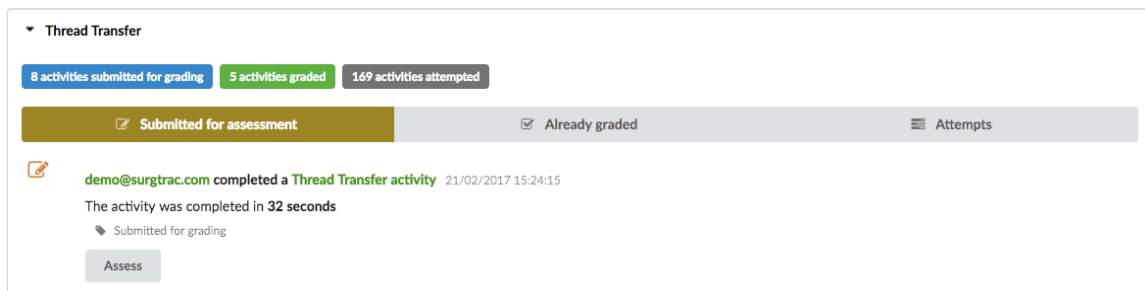


## View courses

1. Click **Assessment > View courses**.
2. Select a course (e.g. SurgTrac Core)

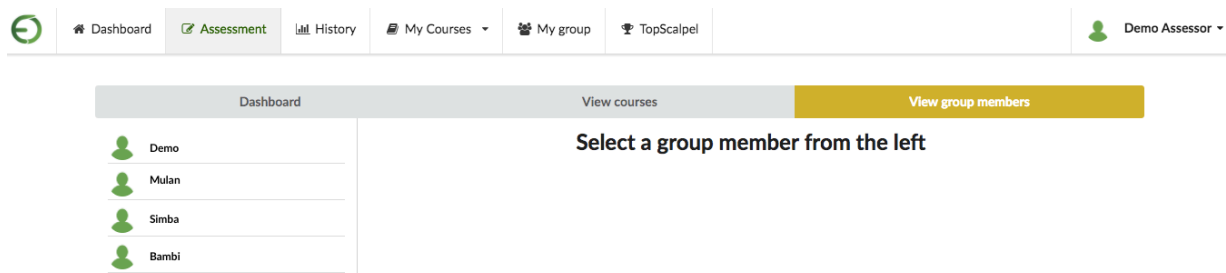


3. Select an activity (e.g. Thread Transfer). Click **Submitted for assessment, Already graded, or Attempts** to see a further breakdown of the activity.



## View group members

1. Click **Assessment > View group members**.



2. Click on a group member's name.

- View activities submitted for grading. Click **Assess** to grade an activity. Click **Go to Profile** to view the candidate's profile.

**demo@surgtrac.com**

TOTAL TIME SPENT PRACTISING: 1 HOUR, 4 MINUTES, 45 SECONDS

| Activities submitted for grading   | Modules Completed      |
|--|------------------------|
| <p> <b>demo@surgtrac.com</b> completed a <b>Thread Transfer</b> activity<br/>The activity was completed in <b>1 minute, 39 seconds</b><br/>Submitted for grading</p> <p style="text-align: center;"><a href="#">Assess</a></p> <p> <b>demo@surgtrac.com</b> completed a <b>Thread Transfer</b> activity<br/>The activity was completed in <b>1 minute, 18 seconds</b><br/>Submitted for grading</p> <p style="text-align: center;"><a href="#">Assess</a></p> <p> <b>demo@surgtrac.com</b> completed a <b>Thread Transfer</b> activity<br/>The activity was completed in <b>32 seconds</b><br/>Submitted for grading</p> <p style="text-align: center;"><a href="#">Assess</a></p> | <p>Thread Transfer</p> |
| <p><a href="#">Go to profile</a></p>   |                        |

- View your candidate's profile.

Dashboard
Assessment
My History
My Courses
My group
TopScalpel
demo@surgtrac.com's profile
Demo Assessor

**demo@surgtrac.com**  
Group: Demo Group

Total time spent practising  
1 hour, 4 minutes, 45 seconds

Modules Completed  
1

Grading submissions  
3

All
Attempts
Submitted
Graded

**Recent Activities**

- demo@surgtrac.com** completed a **Thread Transfer** activity 21/02/2017 15:24:15  
The activity was completed in **32 seconds**  
Submitted for grading
- demo@surgtrac.com** completed a **Thread Transfer** activity 16/02/2017 15:59:28  
The activity was completed in **1 minute, 18 seconds**  
Submitted for grading
- demo@surgtrac.com** completed a **Thread Transfer** activity 16/02/2017 15:52:44  
The activity was completed in **29 seconds**  
Attempts
- demo@surgtrac.com** completed a **Thread Transfer** activity 16/02/2017 15:51:47

**Progress**

**Filter**

**SurgTrac Core**

- Thread Transfer
- Precision Cutting
- Dice Stacking
- Paper Fold
- Png Clipping
- Paper Clip Untangle

**SurgTrac Advanced**

- Cyst Dissection
- Tube Ligation
- Paper Png Thread
- Thread Pull
- Png Ligate
- Tube Thread

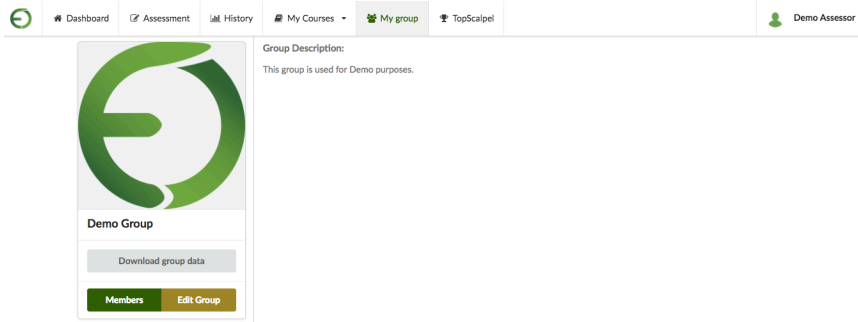
**SurgTrac Elite**

- Incorporated Suture and Tie
- Precision Suture
- Slip Knot and Patch
- Horizontal Suture
- Anatomical (Intergraded)
- Anatomical (Continuous)

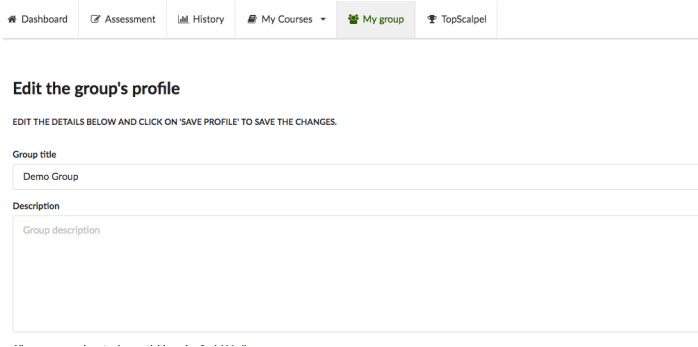
# My Group

## Edit Group settings

1. Click **My Group**
2. Click **Edit Group** .



3. Edit your group name and description.

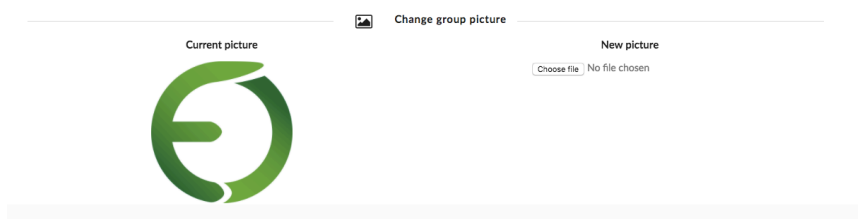


4. Your group is automatically set **not** to allow members to post to **social media** and to the **public TopScalpel**. You can change these settings to allow ticking the boxes and clicking **Save profile**

**Allow group members to share activities using Social Media**

**Allow group members activities to be shared on the public TopScalpel**

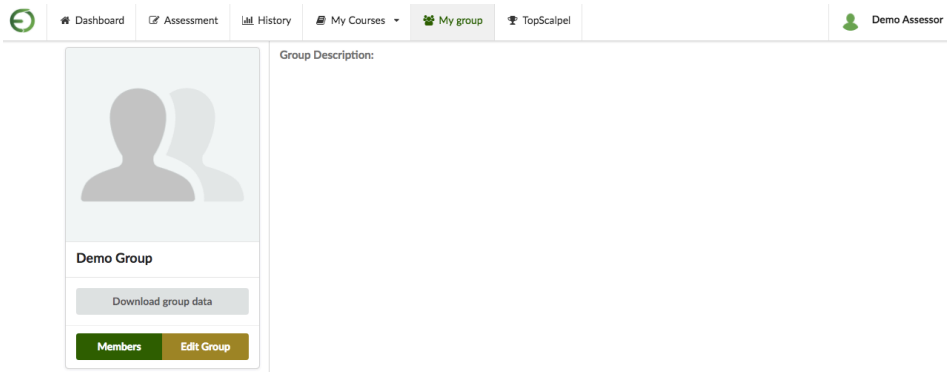
5. To edit your logo, click **Choose file** to upload a new group picture. Click **Save Profile**.



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## Download group data

1. Click **My Group**
2. Click **Download group data**






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## View group members

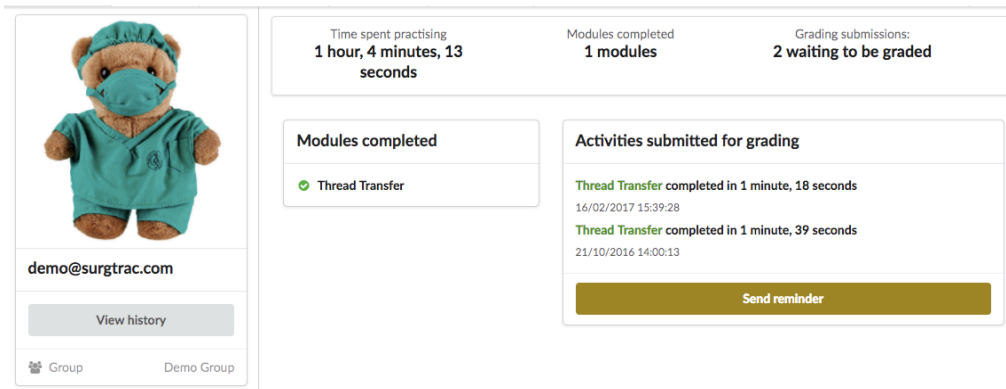
1. Click **My Group**
2. Click **Members**.
3. Click **Go to profile** to view a candidate's profile.

### Demo Group 's members

|   |                               |
|---|-------------------------------|
|  Demo  | <a href="#">Go to profile</a> |
|  Mulan | <a href="#">Go to profile</a> |
|  Bambi | <a href="#">Go to profile</a> |

# Review your activities

1. Click **Dashboard** for an overview of your data.



demo@surgtrac.com

View history

Group Demo Group

Time spent practising  
**1 hour, 4 minutes, 13 seconds**

Modules completed  
**1 modules**

Grading submissions:  
**2 waiting to be graded**

Modules completed

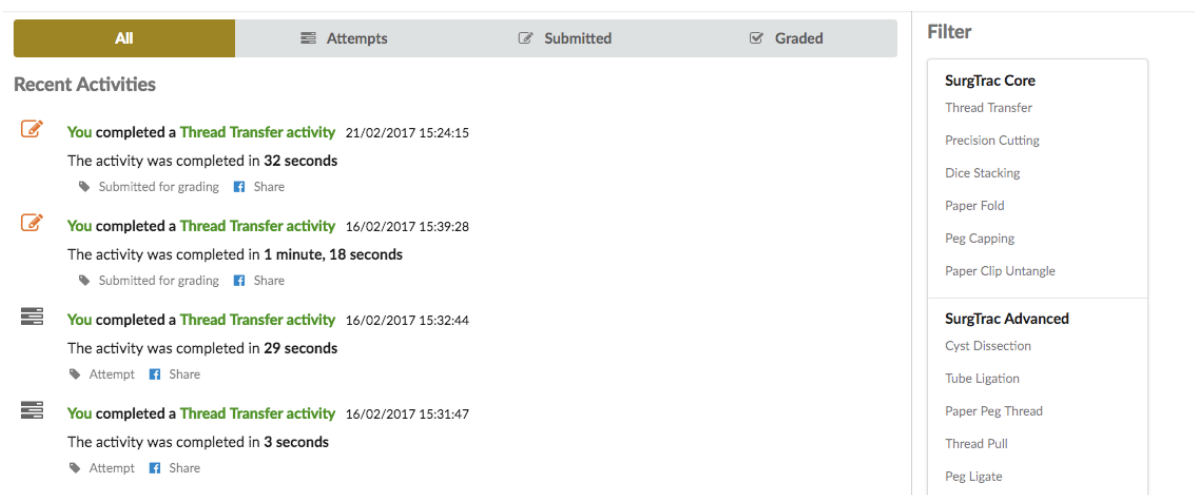
- Thread Transfer

Activities submitted for grading

- Thread Transfer completed in 1 minute, 18 seconds  
16/02/2017 15:39:28
- Thread Transfer completed in 1 minute, 39 seconds  
21/10/2016 14:00:13

Send reminder

2. Click **View History** or **History** to view all of your data. You can filter the activities by selecting one (e.g. Thread Transfer) and by **All**, **Attempts**, **Submitted**, and **Graded**.



All Attempts Submitted Graded

Filter

**SurgTrac Core**

- Thread Transfer
- Precision Cutting
- Dice Stacking
- Paper Fold
- Peg Capping
- Paper Clip Untangle

**SurgTrac Advanced**

- Cyst Dissection
- Tube Ligation
- Paper Peg Thread
- Thread Pull
- Peg Ligate

Recent Activities

- You completed a **Thread Transfer** activity 21/02/2017 15:24:15  
The activity was completed in **32 seconds**  
Submitted for grading Share
- You completed a **Thread Transfer** activity 16/02/2017 15:39:28  
The activity was completed in **1 minute, 18 seconds**  
Submitted for grading Share
- You completed a **Thread Transfer** activity 16/02/2017 15:32:44  
The activity was completed in **29 seconds**  
Attempt Share
- You completed a **Thread Transfer** activity 16/02/2017 15:31:47  
The activity was completed in **3 seconds**  
Attempt Share

3. You can filter the activities by selecting one (e.g. Thread Transfer) and by **All**, **Attempts**, **Submitted**, and **Graded**.

4. To view a graded activity, click **Graded**. Click on the activity that is highlighted in green (e.g. Thread Transfer activity).

The screenshot shows the SurgTrac dashboard with the 'Graded' tab highlighted in yellow. The 'Recent Activities' section shows a green checkmark next to the text: 'You completed a Thread Transfer activity 19/10/2016 11:33:55'. Below this, it states 'The activity was completed in 22 seconds' and 'Grade C'. A 'Filter' sidebar on the right lists 'SurgTrac Core' activities: Thread Transfer, Precision Cutting, Dice Stacking, and Paper Fold.

5. This will direct you to graded activity where you can review your feedback

The screenshot displays the 'Thread Transfer' activity review page. On the left, a profile card for 'demo@surgtrac.com' shows a teddy bear avatar, the activity name 'Thread Transfer', 'Total time 22 seconds', 'TopScalpel', and 'Grade C'. The main content area features a video player titled 'Thread Transfer - 19/10/2016 11:33:55' with a 'Graded' badge. Below the video is a 'Progress' bar. A feedback message at the bottom reads: '😊 This activity was faster than the average.' On the right, the 'Assessment Results' section shows scores for 'Handling of instruments' (2), 'Flow of procedure' (4), and 'Respect of tissues' (2). Below this is a 'Certificate' section with a 'Get certificate' button and a 'TopScalpel' section with a 'Submit to TopScalpel' button.

# My Courses

1. Click **My Courses** and select a course (e.g. SurgTrac Core) to review your activities

The screenshot shows the course overview for 'SurgTrac Core'. On the left, there is a profile picture of a blue scrubs character, the email 'demo@surgtrac.com', and a 'View history' button. The main content area is divided into three sections: 'spent practising' showing '4 minutes, 13 seconds', 'Modules completed' showing '1 modules', and 'Grading submissions' showing '2 waiting to be graded'. Below these are two boxes: 'Modules completed' with a green checkmark and 'Thread Transfer', and 'Activities submitted for grading' with two entries: 'Thread Transfer completed in 1 minute, 18 seconds' on 16/02/2017 and 'Thread Transfer completed in 1 minute, 39 seconds' on 21/10/2016. A 'Reminder Sent' button is also visible.

4. The course overview provides a breakdown of completed activities, number of activities submitted for grading, and how many attempts you have made.


This screenshot shows a detailed view of the 'SurgTrac Core' course overview. The left sidebar contains a description of the course. The main area lists several activities: 'Thread Transfer' (Module Completed, 2 activities submitted for grading, 39 activities attempted), 'Precision Cutting' (Module not completed), 'Dice Stacking' (Module not completed), 'Paper Fold' (Module not completed, 2 activities attempted), 'Peg Capping' (Module not completed), and 'Paper Clip Untangle' (Module not completed).

5. Select an activity (e.g. Thread Transfer) to see how much time you have spent practising that activity. You can also view your submitted activities for grading, graded activities, and your attempts.






This screenshot shows the details for the 'Thread Transfer' activity. It displays 'Module Completed', '2 activities submitted for grading', and '39 activities attempted'. Below this, it states 'Total time spent practising this module: 56 minutes, 58 seconds'. A progress bar shows 'Submitted' (green), 'Graded' (grey), and 'Attempts' (grey). Two activity entries are listed: one from 21/10/2016 completed in 1 minute and 39 seconds, and another from 16/02/2017 completed in 1 minute and 18 seconds. Both entries indicate they were 'Submitted for grading'.

# TopScalpel

TopScalpel is a global leaderboard of simulated laparoscopic surgical skills. Your candidates can now compete with their peers in your institution and across the world. TopScalpel is broken down between the **global** and **group** TopScalpels.

 Top Scalpel

Global Group

| Thread Transfer |   |            |   |
|-----------------|---|------------|---|
| 1.              |  Mulan       | 30 seconds | <a href="#">See video</a> <a href="#">See stats</a> |
| 2.              |  Aladdin     | 31 seconds | <a href="#">See video</a> <a href="#">See stats</a> |
| 3.              |  Elsa        | 38 seconds | <a href="#">See video</a> <a href="#">See stats</a> |
| 4.              |  Simba       | 38 seconds | <a href="#">See video</a> <a href="#">See stats</a> |
| 5.              |  Micky Mouse | 42 seconds | <a href="#">See video</a> <a href="#">See stats</a> |

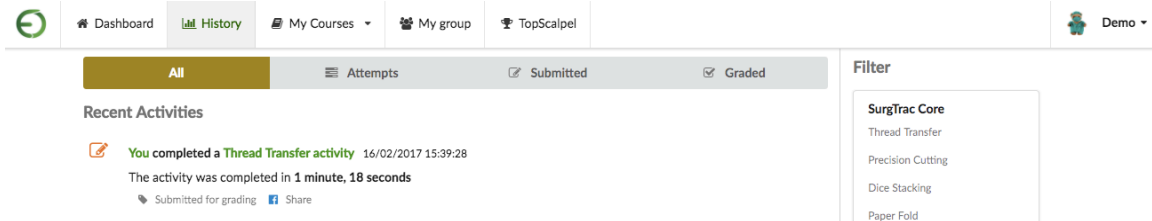
Your group is automatically set to **not** allow your group members to participate in the global TopScalpel. You can change these settings by updating your **group settings** (see the **My Group** section).

After a candidate's activity is graded, the candidate can submit that activity to TopScalpel. If you have chosen not to allow activities to be posted to the global TopScalpel, this activity will only appear in your group TopScalpel. Only graded activities can be added to TopScalpel. This is to ensure that all the activities on TopScalpel are authentic and reliable.



## Social media

Candidates can now post their activity times to social media. Your group setting is automatically set to **not** allow members to post activities to social media. You can update these settings by changing your **group settings** (see the **My Group** section).



The screenshot displays the SurgTrac user interface. At the top, there is a navigation bar with a home icon, 'Dashboard', 'History', 'My Courses', 'My group', and 'TopScalpel'. On the right side of the navigation bar, there is a user profile icon labeled 'Demo'. Below the navigation bar, there are tabs for 'All', 'Attempts', 'Submitted', and 'Graded'. The 'All' tab is currently selected. To the right of the tabs is a 'Filter' menu with a dropdown arrow. The filter menu is open, showing a list of activities: 'SurgTrac Core', 'Thread Transfer', 'Precision Cutting', 'Dice Stacking', and 'Paper Fold'. Below the filter menu, the 'Recent Activities' section is visible. It shows a single activity: 'You completed a Thread Transfer activity' on 16/02/2017 at 15:39:28. The activity was completed in 1 minute and 18 seconds. Below the activity name, there are icons for 'Submitted for grading' and 'Share'.

If you choose not allow posts to social media, the candidate will not see the Facebook share icon.

## What do the metrics mean?

**Time:** The less time it takes to complete a task, the more efficient you have been at completing it. Precision shouldn't be traded for speed, but the three target times for each Module have been set by experts able to complete each task with both precision and speed.

**Instrument Path Distance:** This is a measure of precision of control of the instruments. Experts are able to complete the Modules with a significantly lower instrument path distance than trainees.

**Handedness:** Experts utilise both hands effectively to efficiently complete the Modules. Aim for a ratio of 65:35% or better for most tasks to ensure you are becoming as ambidextrous as possible.

**% Time off screen:** Keeping the instruments within the operative field of view is a key skill in minimally invasive surgery. Aim to keep this figure as low as possible for all tasks.

**Distance between instruments:** This is a measure of 'economy of area'. The lower this figure, the closer the control of your instruments and the less they have been moving around without purpose.

**Speed, Acceleration & Motion Smoothness:** These metrics are interesting. Studies are yet to conclusively demonstrate their value. SurgTrac is a tool which will allow academics to help elucidate this.

For more information about the evidence-base, please click [here](#).

## Contact us

If you have any questions, please get in touch with us:

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