



Introduction to laparoscopic surgery course



Learn Practice Reflect Excel



Table of Contents

Who is this course for?	1
What will I learn?	1
Why should I do this course?	1
Course description	1
Pre course e-learning modules (5-minute videos):	2
1 day course:	3
Module 1: Basic laparoscopic skills	3
Module 2: Procedure-specific training	3
Module 3: Advanced skills – Suturing	3
Timetable	4
Learning outcomes	5

Who is this course for?

This 1 day intensive course is for doctors of any grade interested in building an excellent base in laparoscopic surgical skills, with a specific focus on General Surgery. This course is suitable for grades from medical student to ST4.

What will I learn?

This course will take you through the basic principles of laparoscopic surgery, build your foundation in basic skills, progressing through the LapPass curriculum and get theatre-ready with high volume, high-fidelity procedural simulation training.

Why should I do this course?

Take advantage of the latest technology-enhanced training methodology to progress your skills faster than ever before. We will work towards LapPass accreditation sign off

and all videos, assessments and metrics will be stored on your Totum profile where you will be able to access this for a full year's complimentary subscription.

Course description

Kickstart your laparoscopic surgery journey with this 1-day high-intensity course designed for surgical trainees. Combining foundational skills with procedure-specific training, this course prepares you to master key laparoscopic techniques under expert guidance.

Prepare with pre-course e-learning modules covering principles of laparoscopy, port placement, suturing, and emergency considerations to maximize your practical experience.

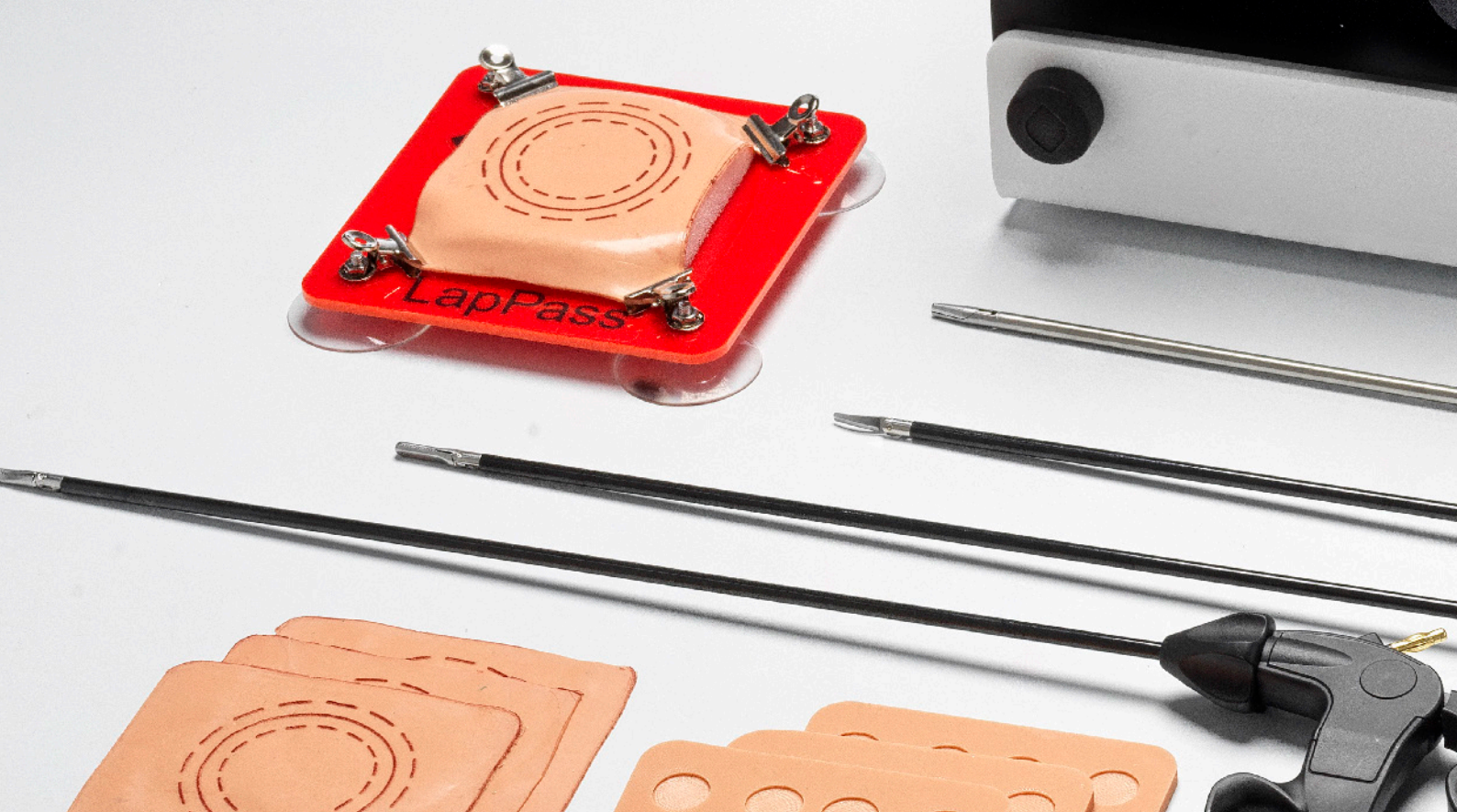
On the day:

- | | |
|-----------|--|
| Module 1: | Develop essential basic laparoscopic skills with focused tasks in object manipulation, disk cutting, and LapPass exercises, complete with video-recording, metric recording and real-time feedback. |
| Module 2: | Learn and practice the most common emergency procedure, laparoscopic appendicectomy. Refine your technique with augmented reality simulations, completing multiple procedures while improving through performance tracking and facilitator feedback. |
| Module 3: | Master advanced suturing skills with practical training on LapPass and enterotomy closure models, covering both continuous and interrupted suturing techniques. Reflect and progress with structured metric analysis. |

Benefit from high-volume hands-on operating, live masterclasses, and performance tracking to gain confidence and competence in key laparoscopic procedures. Work towards getting LapPass sign off, with sign offs for modules completed during the face-to-face course. This course offers the perfect foundation to build your skills, improve efficiency, and excel in laparoscopic general surgery.

Pre course e-learning modules (5-minute videos):

- Principles of laparoscopy (i.e ergonomics, what it is)
- Basic equipment
- Theatre considerations (patient positioning, team)
- Port placement
- Laparoscopic access (then a practical with some basic suturing on the day etc)
- Emergency conversion to open
- Laparoscopic suturing principles



1 Day course:

Module 1: Basic laparoscopic skills

In this station, all activity will be video-recorded, and skill metrics will be recorded. These videos and metrics will be available on your Totum software.

Delegates will progress through each task:

- Manipulation stations (x2)
- Disk cutting
- LapPass manipulation task
- LapPass penrose task

[Pause to reflect on their metrics for each task.]

Repeat to see metric progression through each task.

N.B at this point, LapPass assessment could take place if there is a facilitator available

Module 2: Procedure-specific training

In this station, we will learn the principles and considerations of the most common emergency general surgical operation, followed by Augmented reality practice.

Live talk/seminar: Masterclass in laparoscopic appendicectomy

- Anatomy and pathophysiology
- Key studies in appendicitis and appendicectomy
- Operative considerations
- Basic steps (with video)



Live practice:

Delegates will have the opportunity to complete an AR appendicectomy with metric tracking. Each procedure will be videoed and uploaded to Totum, along with operative metrics.

Between each procedure delegates will reflect on metrics and ways to improve with facilitators. Each delegates will perform a minimum of 5 LapAR appendicectomy procedures using different methods of dissection of the mesoappendix (blunt vs sharp).

Module 3: Advanced skills – Suturing

1. Suturing practice on lap pass base placing interrupted sutures

Pause to reflect on metrics after 5 placed sutures

Continue to replace 5 further interrupted sutures and compare improvements in metric

2. Suturing practice on enterotomy model

Placing interrupted sutures and continuous suture technique

Pause to reflect on metrics

Continue to reflect on metrics

Timetable

Example timetable:

Time	Exercise	Location
09.00 – 09.30	Delegate arrival	
09:30 – 09.45	Introduction and re-cap of e-learning modules.	Boardroom
09.45 - 10.30	Basic suturing 1	Skills Lab
10.30 - 11.15	Basic suturing 2	Skills lab
11.15 – 11.45	Appendicectomy masterclass tutorial	Skills lab
11.45 - 12.15	Appendicectomy practical	Skills lab
12.15 - 13.00	LUNCH	Catering area
13.00 – 14.00	Appendicectomies continued	Skills lab
14.00 - 14.15	Suturing seminar and demonstration	Skills lab
14.15 - 16.30	Suturing on LapPass base and continuous model	Skills lab
14.15 – 16.30	LapPass sign offs	Skills lab

Learning outcomes

1. To understand the principles of minimally-invasive surgery
2. To understand the benefits, limitations and ergonomic considerations of laparoscopic surgery
3. To understand the operation-specific considerations of a laparoscopic procedure (including the wider theatre team, set up)
4. To understand the basic principles of laparoscopic access (Hasson and Visi-port)
5. To practice and demonstrate basic laparoscopic skills including: object manipulation, sharp dissection of a disk and ligation
6. To practice and demonstrate laparoscopic suturing techniques in continuous and interrupted fashion.
7. To understand the principles and evidence-based practice of laparoscopic appendicectomy
8. To practice and demonstrate laparoscopic appendicectomy on an augmented reality model
9. To reflect and improve on performance using video-recording review and analysis of operative performance metrics.





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