



Equipment/Supplies Required for FLS Remote Skills Testing at your institution

REQUIRED FLS TRAINER BOX AND ACCESSORIES – All must be in good condition:

- FLS trainer box system approved for the FLS exam. Box cannot have been altered in any way or have any non-approved replacement parts. Must have all provided cables and attachments in good working order.
- FLS exam approved peg transfer board with 6 colored rubber objects. Objects must be in good condition without any slits or chunks missing.
- FLS exam approved Jumbo Clip with Velcro.
- FLS exam approved red/white Velcro suture block.

Replacement parts and accessories for FLS trainer box system are available at www.fls-products.com

REQUIRED FLS CONSUMABLE TESTING SUPPLIES – NOW REQUIRED AS OF 1/1/2025

Standardized - MUST be purchased from Limbs & Things: www.fls-products.com

- Single circle pre-stamped gauze sheets
- Red foam organs
- Penrose drains

Can be any brand:

- Ligating loops: Any material is acceptable (see helpful product information below). If using LTI loops, they must be the single use (multi use are not allowed).
- Suture **MUST** meet these specifications: 2-0 silk or Sofsilks suture at least 90cm in length, taper SH or V-20 curved 26mm needle (see helpful product information below)
- Plastic resealable baggies with a write-on area or a sticker label.

Amount of consumables required

- Gauze, Red Foam Organ, and Ligating Loop – at least 1 each per test taker
- Penrose drains and suture – at least 2 each per test taker

IT IS STRONGLY ADVISED TO HAVE EXTRA CONSUMABLES AVAILABLE IN CASE OF ERRORS, MISTAKES, OR BREAKAGE.

ADDITIONAL REQUIRED EQUIPMENT AND INSTRUMENTS:

- Video monitor for use with the FLS trainer, minimum size 15
- A laptop/computer with working camera and microphone/speakers
- **Video converter bundle** (<https://fls-products.com/fls/products/50370/50370-fls-converter-bundle>)
- Strong internet/Wifi connection that supports uninterrupted streaming
- 2 Trocars/ports (at least 10mm, must be 'low-profile')
- Grasper with a locking handle/locking grasper
- 2 Laparoscopic needle drivers (cannot be self-righting)
- 1 Open-ended knot pusher
- 1 Closed-ended knot pusher
- 2 Maryland Dissectors
- Endoscissors or Endoshears (sharp!)

OTHER MISCELLANEOUS EQUIPMENT AND SUPPLIES NEEDED:

Height-adjustable tables
Step stools
A/V cart or wall mount for monitor
Power strips/extension cords
Sharps box
Additional tables/carts for laptop/computer, instruments, and facilitator

Helpful Industry Product Information

*Listed below are **A FEW examples** of acceptable products/equipment. Please do not construe as official endorsements or anything other than suggestions*

Suture

LTI Suture 2-0 (25pcs) Part 50368

LTI Suture 2-0 (50pcs) Part 50367

*Currently Ethicon, Inc. does not stock a suture long enough for the extracorporeal knot task. However, a special order can be made through Ethicon for suture appropriate for use in the FLS exam. The product code for the special-order suture is D8342. The specifications are: 2-0 silk black braided, 48" (122cm), SH 26 mm 1/2 circle taper needle.

Ligating Loops/Endoloops

LTI Medical Single-Use Ligating loop product Part#: 50364 (single-use acceptable for testing)

Ethicon Endoloop Coated vicryl 0 violet braided EJ10C (box) EJ10 (individual)

Ethicon Endoloop vicryl 0 EJ10G (box)

Ethicon Endoloop PDS II 0 EZ10G (box) EZ10 (individual)

Ethicon Endoloop PDS II ligature EZ10C (box)

Covidien (Autosuture) Surgitie 2-0 polysorb REF EL-21-L (individual) ED- 20-L (box)

Covidien (Autosuture)Surgitie 0 18" chromic gut REF SGL-1

Needle Drivers

(Self-righting needle drivers are NOT acceptable for use during the FLS exam)

LTI Laparoscopic Needle Driver (Left) Part#: 50385

LTI Laparoscopic Needle Driver (Right) Part#: 50384

Ethicon needle driver E 705R

Storz KOH Macro Needle Driver/Holder ergo pistol #26173 KM

Storz KOH Macro Needle Driver/Holder ergo pistol #26173 MC

Storz KOH Macro Needle Driver/Holder #26173 MR and ML

Olympus needle driver A5690

Maryland Dissectors

LTI Maryland Dissector Part#: 50381

Ethicon Endopath Curved Dissector 5DCD

Storz Kelly/Maryland grasper, complete instrument #33121, 33300, 33310ML

Covidien Endo Dissect 5mm REF 176645

Grasper w/ Locking Handle

LTI Grasper (Locking Handle) Part#: 50382

Ethicon Endopath Grasper 5DSG
Covidien Endo Grasp 5mm #173030

Endoscopic Scissors

LTI Endoscissors Part#: 50383
Ethicon Endopath 5 mm Scissors 5DCS
Storz Endoscopic Scissors, complete instrument with two inserts #33121, 33300, 33310
Covidien Endo Shears 5mm REF 176643

Knot Pusher

LTI Open- and Closed-ended Knot Pusher Part#: 50386
Cook Medical Clarke-Reich Laparoscopic Knot Pusher (product # G16681) Order # J-CRKP-042900
Covidien Endo Slide #174510 (open knot pusher)
Storz open and closed knot pusher 26596D
Storz open knot pusher 26596 SK

Trocars

LTI Trocars (pair) Part#: 50330
Ethicon-Endo Xcel 11mm bladeless trocar B11LPH
Ethicon-Endo Xcel 12 mm bladeless trocar B12LT
Covidien Thoraport 11.5mm REF 179303

Monitor

LTI Medical 19" video screen product Part#: 50321
Stryker and Sony endoscopy monitors work very well with the FLS Trainer box
Most color standard or HD televisions (at least 15" screen) with an RCA or composite video input should work

Sharps Container

Most standard sharps containers are fine

Height Adjustable Tables

LTI Mobile SimCart for FLS Trainer System Part#: 50322

Instrument Kit

LTI FLS Approved Instrument Kit Part#: 50380
(*FLS Approved Non--Clinical/Not Sterilized*)

- 2 LTI Maryland Dissectors
- 1 LTI Endoscissors
- 1 LTI Grasper (Locking Handle)
- 1 LTI Laparoscopic Needle driver (Right)
- 1 LTI Laparoscopic Needle driver (Left)
- 1 LTI Open- and Closed- ended Knot Pusher