

**UT SOUTHWESTERN DEPARTMENT OF SURGERY
TECHNICAL SKILLS COURSE OUTLINE**

Course Title: R2- R5 Ongoing FLS Technical Skills and Laparoscopic Suturing Training

Course Director: Name: Daniel J. Scott, MD
Specialty: Surgery

Additional Course Faculty: Name: Seifu Tesfay, RN, MS
Specialty: Senior Education Coordinator

Name: Lisa Hollett RN, MA
Specialty: Education Coordinator

Name: Debbie Hogg, BS
Specialty: Clinical Study Coordinator

Name: Nancy Gardner RN
Specialty: Research Nurse

Participants: Specialty: Surgery Residents
Level: R2 - R5
Number of participants for the entire course: R2-15, R3-16, R4-11, R5-10
(Total n=52)

Time period: Curriculum is offered twice/year, approximately six months apart.

End Date: Demonstration of proficiency and post-testing required within 2 months of initial session on Tasks 4 and 5.

Expected Attendance:

of Wednesday Morning Sessions Assigned to Each Trainee: 2 sessions (1 in each of assigned months)

Duration of Each Session (max 2 hrs): 2 hrs

of Trainees per session: 10-15

Course Completion Verification - How do you know when a trainee has completed each component of the course and the overall course itself? Please specify for each course component, if applicable – *for example, assigned reading component verified by written testing and skills component verified by attending 2 course-instructor led sessions.*

X Attendance-based - based on the trainee attending all designated sessions

Entire Course - Is the entire course solely based on attendance?
X Part of the Course – Is attendance to designated sessions required in addition to other components, as listed below?

 Repetition-based - based on the trainee performing a specified number of repetitions
Component(s): _____
of Repetitions: _____

X Proficiency-based - based on the trainee reaching a specified level of proficiency
Component(s): FLS Tasks 4-5 _____
Method for determining proficiency: FLS metrics with proficiency levels reached on Tasks 4 and 5, as verified by a proctor according to score sheets, plus formal post-testing once proficiency has been reached. Timeline: curriculum completed by 2 months following introduction session.

 Written Testing - based on passing a written test
Component(s): _____

X Documentation of Watching Videos/CD's/Web-based Materials - based on proctor or instructor verification that the trainee has watched the specified videos/CD's/Web-based materials
Component(s): SAGES Top 14 videos for PGY 2 Only _____

 Other Methods (specify method) _____
Component(s): _____

Self-study or Self-practice (Is self-study or self-practice an expectation of this course?)

 No

X Yes (specify)

Self-study component(s): _____
Estimated time requirements for self-study: 5-6 hrs.
During what phase(s) of the course is self-study to be completed? _____
Training for PGY 2 only (SAGES Top 14 Videos/commentaries)

Self-practice component(s): FLS Tasks _____
Estimated time requirements for self-practice: 5 hrs.
During what phase(s) of the course is self-practice to be completed? _____
Training Phase

Training Location(s): Skills Lab

Equipment/Simulator(s): FLS Training Boxes

Other Resources (Textbooks, CD-ROMS, Videos, etc): FLS Disk 2 for Video Tutorial on technique , SAGES Top 14 Videos

Educational Scope:

- X Skills – does this course teach technical skills?
Component(s): FLS tasks: eye-hand-coordination, extracorporeal knot tying, intracorporeal knot tying
- X Cognitive - does this course teach cognitive (knowledge) material?
Component(s): Laparoscopic surgery
- Judgment – does this course teach trainees judgment (intraoperative or clinical decision-making)?
Component(s): _____

Learning Objectives:

Acquire proficiency in laparoscopic skills contained in the FLS Module, including eye-hand-coordination, extracorporeal knot tying, and intracorporeal knot tying.

Summary of Curriculum, Teaching Methods, and Resource Utilization (*For each component, please specify what material will be taught during each session, how will the material be taught, and what teaching materials will be used. Please also specify the overall format of the course including expectations required for successful course completion*):

Each residency class will attend a single Wednesday morning session. During this session, an introduction to FLS tasks will be afforded and an orientation to the video tutorial, the trainer box materials, and the scoring system will be provided. This session will be repeated a second time later in the academic year.

Trainees will then perform 1 repetition of Tasks 4 and 5 while being graded according to FLS metrics by one of the 3 proctors; this will serve as the pre-test.

Trainees will then be expected to self-practice on the tasks, with data on performance recorded for each repetition, until proficiency levels are reached for Tasks 4 and 5. Trainees must log in and log out of the attendance system to track total training time. Training will be conducted in a self-study fashion and trainees will be encouraged to repetitively watch the video tutorials during training to review appropriate techniques and tricks for performing the tasks. Proctors will be available upon request to provide additional feedback.

Once proficiency has been achieved, each trainee will notify the education coordinator, who will verify achievement of proficiency on Tasks 4 and 5 according to the documentation on the score sheets. Each trainee will then schedule a 30 minute post-test session with the proctor and will

perform 1 repetition of each task while being graded according to FLS metrics by the proctor. Score sheets will be collected and filed.

Methods for giving feedback to learners (Formative and Summative):

Training will be conducted in a self-study fashion and trainees will be encouraged to repetitively watch the video tutorials during training to review appropriate techniques and tricks for performing the tasks. Proctors will be available upon request to provide additional feedback. Trainees will also be given a report of their pre and post-test scores and improvement.

Methods for Assessment of Learners:

FLS metrics for pre and post-testing and modified FLS metrics for training.

Methods for Remediation: *(How are individuals who need remediation identified and how is remediation facilitated?)*

Anyone who cannot achieve proficiency on either task will be remediated by proctored training sessions.

Methods for Course Evaluation:

By Learners: E-Value online system
Other Methods (*specify*) _____

By Faculty: E-Value online system
Other Methods (*specify*) _____

Materials: Specify the types of materials, manufacturer (if pertinent), and total quantity needed.

- FLS training boxes (2 stations)
- FLS disk 2 set-up on skills lab computers
- Needle drivers (2 sets)
- Knot pushers (2 sets)
- Laparoscopic Instruments
 - Endoshears, 1 per stations x 2 stations = 2, + 1 replacement = 3
 - Penrose drains: 28 reps x 52 trainees = 1456/10 reps per drain = 146 penrose drain models

Trainees (n=52)	Suture* (24 ea + 2 test)
Aug & Feb: R5 (10)	280
Sep & Mar: R4 (11)	308
Nov & Apr : R3 (16)	448
Aug & Mar :R2 (15)	420

*Long suture must be cut to 12 cm and saved after each extracorporeal repetition for use again during intracorporeal knot tying task

Suture: 2-0 silk, V-20 needle, 120cm long, ES-439