UT SOUTHWESTERN DEPARTMENT OF SURGERY

TECHNICAL SKILLS COURSE OUTLINE

Course Title: R1 Open Basic Suture Skills

Course Director: Name: Daniel J. Scott, MD, FACS
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: R1
Number of participants for the entire course: 39

Curriculum duration: Two months

Expected Attendance:

# of Wednesday Morning Sessions Assigned to Each Trainee: 1
Duration of Each Session (max 2 hrs): 2-4 hrs
# of Trainees per session: 13

# of Other Assigned Sessions: None
Duration of Each Session: _____hrs
# of Trainees per session: _____
When will these other sessions be held?_____

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): _____Skills Training_____

Method for determining proficiency: Proficiency levels reached on Tasks 1-12, as verified by a proctor according to score sheets. Timeline: Tasks 2-6 completed by one month .Entire curriculum completed by two months. Date to be determined.

_____ Written Testing - based on passing a written test

Component(s): _____

_____ 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): _____

_____ 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: _____ hrs.

During what phase(s) of the course is self-study to be completed? _____

_____

Self-practice component(s): _Skills Training_____

Estimated time requirements for self-practice: _____10-15__ hrs.

During what phase(s) of the course is self-practice to be completed? _____

_____Training Phase_____

Training Location(s): Skills Lab

Equipment/Simulator(s):

1. Knot tying boards

2. FLS suture models
3. Daisies

Other Resources (Textbooks, CD-ROMS, Videos, etc):

1. SCMIS Open Basic Skills Video Tutorial
2. Suture books

Educational Scope:

X_____ Skills – does this course teach technical skills?
Component(s): _____Basic Laparoscopic Skills_____

_____ Cognitive - does this course teach cognitive (knowledge) material?
Component(s): _____

_____ Judgment – does this course teach trainees judgment (intraoperative or clinical decision-making)?
Component(s): _____

Learning Objectives:

Acquire proficiency in open basic skills, including needle driver handling, knot tying, and suturing.

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):*

During orientation in June, all interns will be oriented to the R1 skills curriculum. All trainees will then attend one 4 hour assigned session during July. During this session, an introduction to the open skills tasks and the curriculum will be afforded and an orientation to the video materials, the models, and the scoring system will be provided. Trainees will perform 1 repetition of each of the 12 tasks as a pre-test.

During this same 4 hour assigned period, all trainees will also be pre-tested on the FLS training module after a brief introduction; this will involve performing 1 repetition of each of the 5 FLS tasks. This will serve as a baseline assessment of laparoscopic ability for use to document improvement after subsequent training.

After pre-testing, trainees will be expected to self-practice on the open basic tasks, with data on performance recorded for each repetition, until proficiency levels are reached for all tasks for all modules. 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 to assist in training and to provide additional feedback as needed.

Once proficiency has been achieved, each trainee will notify the education coordinator, who will verify achievement of proficiency on all 12 open basic tasks according to the documentation on the score sheets. Each trainee will then schedule a 1 hour post-test session with the proctor and will perform 1 repetition of each task while being graded 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 to assist in training and to provide additional feedback as needed. Trainees will also be given a report of their pre and post-test scores and improvement for the skills component.

Methods for Assessment of Learners:
Established metrics for skills training.

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

Anyone who cannot achieve proficiency on any of the tasks 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.

1. Knot tying boards – 10 stations, + 1 replacement = 20
2. FLS suture models/penrose drains - 200
3. Daisies – 1 per trainee = 39

2-0 silk ties, regular length, 10 packs per trainee x 39 trainees = 390 packs
3-0 undyed polysorb, 30 cm, tapered needle, 20 per trainee x 39 trainees = 780*
* cut to 40 cm and re-use 5 times per repetition to conserve suture
3-0 nylon, 18 inch, tapered needle, 40 per trainee x 39 trainees = 1560