

Status/Due date

N/A

Audit ID & Type 733 Laser Safety Audit Time & Facility type Thu, 8/25/22 2:23 PM **Laser Safety** Room Test **University Hall** Location notes Initial audit ended Initial audit not completed Status Personal Training and Qualifications Is the LASER operator qualified (documentation of receiving basic LASER information and Question # (Question ID): 1 (83) LASER operation training for specific LASER)? Status/Due date N/A 08/25/22 Intermediate LASER Safety Corrective Actions: Specific LASER Qualification Training - Provide documentation of Priority/Recommendation: training on the specific LASER. Contact Safety and Health at 419-383-5069 for available training courses. Reference UT Procedure #HM-08-002 (LASER Systems). LASER Safety Manual: Section 6.0, 12.4. ANSI Z136.1, Section 4.4. Documentation forms can be found at http://www.utoledo.edu/depts/safety/docs/Lab Safety/UT LASER OPERATOR RECORD.pdf. Notes: Question # (Question ID): 2 (84) Has the UT staff present recieved LASER safety training (classroom or on-line)? Status/Due date N/A 08/25/22 Priority/Recommendation: Intermediate LASER Safety Corrective Actions: UT Safety Training - Complete LASER safety training (classroom or on-line) through Safety and Health. Reference: UT Proceedure #HM-08-002 (LASER Systems). LASER Safety Manual: Sect 6.0. Notes: LASER Use Responsibilities Question # (Question ID): 3 (85) Have all LASER users had a baseline eye exam or filled out a declination form? Status/Due date N/A 08/25/22 Priority/Recommendation: Intermediate LASER Safety Corrective Actions: LASER Eye Exam - Schedule an eye exam or obtain and fill out a declination form that can be obtained from the PI, LASER Safety Officer, or the Safety and Health Department. Reference: UT Procedure #HM-08-002 (LASER Systems). LASER Safety Manual: Section 6.0. Notes: Question # (Question ID): Have all LASER activities been recorded in the LASER log book? 4 (86) N/A Status/Due date 08/25/22 Priority/Recommendation: Intermediate LASER Safety Corrective Actions: Log Book - Provide a LASER log book. Reference: UT Procedure#HM-08-002 (LASER Systems) LASER Safety Manual: Section 5.0. Notes: Question # (Question ID): 5 (87) Is each LASER, under the PI/Instructor's/Technology Support control, labeled with its classification?

Run on: 8/25/2022 by: Page 1 of 9

08/25/22



Priority/Recommendation: Intermediate LASER Safety Corrective Actions: Labeling - Label each LASER or LASER system with the correct ANSI LASER Classification. Reference: LASER Safety Manual, Section. 10.0 nd 12.7. ANSI Z1236.1, Section 4.3.14. ANSI Z136.5. Section 4.6.14.

Notes:

Question # (Question ID): 6 (88) Has the PI/Instructor/Clinical Area Director provided Safety and Health with an accurate LASER Inventory?

Status/Due date N/A 08/25/22

Intermediate Priority/Recommendation: LASER Safety Corrective Actions: Inventory - Provide Safety and Health with an up to date LASER inventory. Reference: LASER Safety Manual: Section 5.1. Documentation forms can be found at

http://www.utoledo.edu/depts/safety/docs/Lab Safety/UT LASER INVENTORY FORM.pdf.

Notes:

Question # (Question ID): 7 (89) Are all the LASER dyes handled and disposed as hazardous waste?

Status/Due date N/A 08/25/22

Intermediate LASER Safety Corrective Actions: Dves - Contact Safety and Health about recieving proper training Priority/Recommendation:

on handling and disposal of hazardous waste. Reference: LASER Safety Manual: Section 12.8.

Notes:

Question # (Question ID): 8 (90) Can the LASER beam come into contact with combustible materials, explosives, highly

flammable liquids or gases or substances that decompose into highly toxic products without

providing adequate controls?

Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate LASER Safety Corrective Actions: Fire - Provide adequate controls or remove materials from all areas

where there may be potential interaction with the LASER beam. Reference: LASER Safety Manual:

Section 12.8.

Notes:

Administrative Control Measures

Do all enterances with a Class 3b or 4 LASER have a lighted warning sign that activates when Question # (Question ID): 9 (91)

the LASER is energized?

Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate LASER Safety Corrective Actions: Lighted LASER Signs - Provide and install a lighted LASER

warning sign. Reference: LASER Safety Manual: Section 12.7. ANSI Z136.1, Section 4.7. Notes:

Question # (Question ID): 10 (92) Was the LASER placed in the "off" position when not in use?

Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate Notes:



Question # (Question ID):	11 (93)	Is each enterance posted posted with a warning sign based on the class of LASER (DANGER: The signal word "Danger" shall be used will all signs and labels associated with Class 3R, 3B and 4 LASERS. CAUTION: The signal word "Caution" shall be sued will all signs and labels associated with Class 2 and 2M LASERS. NOTICE: The signal word "Notice" shall be used on signs posted outside temporary LASER controlled area, i.e. during periods of service)
Status/Due date Priority/Recommendation:	N/A Intermediate	08/25/22 LASER Safety Corrective Actions: LASER Class Warning Signs - Provide LASER class warning signs for each entrance. Reference: LASER Safety Manual: Section 12.7. ANSI Z136.1, Section 4.7.
Notes:	12 (04)	Has the Dilinetruster/Clinical Area Director provided Standard Operating Procedures for each
Question # (Question ID):	12 (94)	Has the PI/Instructor/Clinical Area Director provided Standard Operating Procedures for each LASER and LASER procedure?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	LASER Safety Corrective Actions: SOPS - Provide Standard Operating Procedures for each LASER and LASER Procedure. Send a copy to Safety and Health. Reference: UT Procedure#HM-08-002 (LASER Systems). LASER Safety Manual: Section 5.0, 12.4, ANSI Z136.1, Section 4.4. Documentation forms can be found at http://www.utoledo.edu/depts/safety/docs/Lab_Safety/UT_LASER_SOP_FORM.pdf.
Notes:		
Question # (Question ID):	13 (95)	Are there written standard operating procedures (SOPS) outlining alignment methods for all Class 3 B or 4 or Enbedded Class 3 B or 4 LASER systems.
Status/Due date Priority/Recommendation:	N/A Intermediate	08/25/22 LASER Safety Corrective Actions: SOPS Alignment - Provide written SOPs outlining alignment methods. Reference: LASER Safety Manual: Section 12.4 ANSI Z136.1, 4.4.5.1. Documentation forms can be found at http://www.utoledo.edu/depts/safety/docs/Lab_Safety/UT_LASER_SOP_FORM.pdf.
Notes: PPE Control Measures		
Question # (Question ID):	14 (96)	Has proper eye protection been provided?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	LASER Safety Corrective Actions: Eyewear - Contact the LSO to help determine the proper eye protection needed.
Notes:		
Question # (Question ID):	15 (97)	Was the protective eyewear inspected before LASER use?
Status/Due date Priority/Recommendation: Notes:	N/A Intermediate	08/25/22

08/25/22

Were warning signs posted stating eye protection is needed?

Run on: 8/25/2022 by:

Status/Due date

Notes:

Question # (Question ID):

Priority/Recommendation:

16 (98)

Intermediate

N/A



Question # (Question ID): 17 (99) Were extra pairs of protective LASER glasses or goggles available at each entry? Status/Due date 08/25/22 N/A Priority/Recommendation: Intermediate Notes: Question # (Question ID): 18 (100) Were windows appropriately covered? Status/Due date 08/25/22 N/A Priority/Recommendation: Intermediate Notes: Question # (Question ID): 19 (101) Is all LASER protective eyewear labeled with the optical density and wavelength(s) for which protection us afforded? Status/Due date N/A 08/25/22 LASER Safety Corrective Actions: Eyewear Labeling - Contact the LSO or eyewear manufacture to Intermediate Priority/Recommendation: have the eyewear properly labeled. Reference: LASER Safety Manual: Section 12.6. ANSI Z136.1, Section 4.6. Notes: Question # (Question ID): 20 (102) Is a blocking barrier, screen, or curtain, which can block or filter the laser beam being used around the controlled area, including all windows? Status/Due date N/A 08/25/22 Priority/Recommendation: Intermediate Notes: Question # (Question ID): 21 (103) Are the doors interlocked to deactivate the LASER? Status/Due date N/A 08/25/22 Priority/Recommendation: Intermediate LASER Safety Corrective Actions: Barrier - Install barrier material or door interlocks. Reference: LASER Safety Manual: Section 12.6. ANSI Z136.1, Section 4.6. Notes: Question # (Question ID): 22 (104) If there is a UV LASER present, is there skin protection available? Status/Due date N/A 08/25/22 Priority/Recommendation: Intermediate LASER Safety Corrective Actions: UV Protection - Provide UV protection, such sunscreen type lotion, lab coat, gloves, etc. Reference: LASER Safety Manual: Section 12.8. ANSI Z136.1, Section 4.6. Notes:

Engineering Controls		
Question # (Question ID):	23 (105)	Were all foot pedals verbally identified and properly placed?
Status/Due date	N/A	08/25/22
Priority/Recommendation: Notes:	Intermediate	
Question # (Question ID):	24 (106)	Was the foot pedals electrical wiring inspected before use?
Status/Due date Priority/Recommendation: Notes:	N/A Intermediate	08/25/22
Question # (Question ID):	25 (107)	Were any glass, metal or Teflon rods used?
Status/Due date	N/A	08/25/22



Priority/Recommendation:

Intermediate

Notes:

Question # (Question ID):

26 (108)

Were any materials used that were not labled "LASER safe" or known to be "LASER safe"?

Status/Due date

N/A

Intermediate

Priority/Recommendation:

Notes:

Question # (Question ID):

Status/Due date Priority/Recommendation: 27 (109) N/A

Intermediate

Was the key removed from the LASER after use and stored properly? 08/25/22

08/25/22

LASER Safety Corrective Actions: Keys - Always remove the key from the LASER or LASER System when not in use. Reference: LASER Safety Manual: Section 12.8.

Notes:

Question # (Question ID):

Priority/Recommendation:

Status/Due date

28 (110) N/A

Intermediate

Is the LASER system securely mounted to a stable platform?

08/25/22

LASER Safety Corrective Actions: Stable Mounting - Provide stable mounting for all LASERs.

Reference: LASER Safety Manual: Section 11.1.

Notes:

Question # (Question ID):

29 (111)

N/A

traffic pathways?

Status/Due date Priority/Recommendation:

Intermediate

08/25/22

LASER Safety Corrective Actions: LASER Beam Pathway - Clearly identify all LASER beam pathways

Is the path of the LASER beam clearly identified and ensured not to cross into public areas or

or have them enclosed. Reference: LASER Safety Manual: Section 11.1.

Notes:

Question # (Question ID):

Status/Due date Priority/Recommendation: 30 (112) N/A

Intermediate

Are all class 4 LASER beams terminated at the end of thier useful path? 08/25/22

LASER Safety Corrective Actions: Beam Stops - Provide beam stops. Reference: LASER Safety

Manual: Section 11.1, 12.3. ANSI Z136.1, Section 4.3.

Notes:

Question # (Question ID): Status/Due date

Status/Due date

Priority/Recommendation:

31 (113) N/A

Intermediate

Intermediate

Has the NHZ been identified and kept within a controlled area? 08/25/22

LASER Safety Corrective Actions: NHZ - Identify the NHZ or designate the entire room as the NHZ. Reference: LASER Safety Manual: section 12.0. ANSI Z136.1, Sectioin 41.1.

Are all non-enclosed LASER beams kept outside the normal eye-level range, which is between

Notes:

Question # (Question ID): 32 (114)

N/A

1.2 to 2 meters from the floor? 08/25/22

LASER Safety Corrective Actions: Non-enclosed LASER - Move the LASER system so the beam is below 1.2 meters or above 2 meters from the floor or have the beam enclosed. Reference: LASER

Safety Manual: Section 11.1.

Notes:

Question # (Question ID): Status/Due date

Priority/Recommendation:

33 (115) N/A

Are all LASER systems enclosed within a protective housing?

08/25/22



Priority/Recommendation: Intermediate LASER Safety Corrective Actions: Protective Housing - Provide a protective housing that is approved

by the LSO. Reference: LASER Safety Manual: Section 12.3. ANSI Z136.1, Section 4.3.

Notes:

Question # (Question ID): 34 (116) Are all LASERS or LASER systems equipped with a key switch or master switch which shall effect beam termination and/or system shutoff?

Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate LASER Safety Corrective Actions: Key Switch - Have a key switch or master which installed for each

LASER system. Reference: LASER Safety Manual: Section 12.3. ANSI Z136.1, Section 4.3.

Notes:

Question # (Question ID): 35 (117) Is there a circuit breaker associated with each LASER system?

Status/Due date N/A 08/25/22

General Housekeeping - Egress - Fire Safety

Priority/Recommendation: Intermediate LASER Safety Corrective Actions: Circuit Breaker - Contact Plant Operations to have a separate

circuit breaker installed for the LASER or LASER system. Reference: LASER Safety Manual: Section

12.3. ANSI Z136.1, Section. 4.3. OSHA

Notes:

Question # (Question ID): 36 (118) Are all work areas kept clean?

Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate General Housekeeping and Egress: Housekeeping and Egress - Ensure the maintenace of

housekeeping standards. Reference: LASER Safety Manual: Section 12.9.

Notes:

Question # (Question ID): 37 (119) Are there any trip hazards?

Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate General Housekeeping and Egress: Trip Hazards - Remove all trip hazards. Reference: LASER

Safety Manual: Section 12.9.

Notes:

Question # (Question ID): 38 (120) Are any exits, walkways, hallways, emergency equipment, or utility controls blocked?

Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate General Housekeeping and Egress: Blocked Equipment, exits, walkways etc. - Clear all exits,

walkways, hallways and provide access to emergency equipment, and utility controls. Reference:

LASER Safety Manual: Section 12.9.

Notes:

Question # (Question ID): 39 (121) Are doorstops or other means of propping doors open being used?

Status/Due date N/A 08/25/22

Intermediate

General Housekeeping and Egress: Door Propping - Remove all devices that are used to prop open

doors. Reference: LASER Safety Manual: Section 12.9.

Notes:

Priority/Recommendation:

Question # (Question ID): 40 (122) Were non-reflective instruments used?

Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate

Run on: 8/25/2022 by: Page 6 of 9



Notes:

Question # (Question ID): Were non-flammable prep solutions used? 41 (123) Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate

Notes:

Was a fire extinguisher available? Question # (Question ID): 42 (124) Status/Due date N/A 08/25/22

Priority/Recommendation: Intermediate

Notes:	intermediate	
Clinical Laser		
Question # (Question ID):	43 (125)	Is the LASER located in a clinical area? If not, set the Clinical Laser question group to N/A.
Status/Due date Priority/Recommendation: Notes:	N/A Intermediate	08/25/22
Question # (Question ID):	44 (126)	Did the LASER operator function independently of the circulating nurse?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	LASER Safety Corrective Actions: Operator - The LASER operators only job function is LASER operation and safety; all other staffing required for the case must be present in addition to the LASER operator. Reference: UT Procedure #HM-08-002 (LASER Systems) LASER Safety Manual: Section 13.2.
Notes:		
Question # (Question ID):	45 (127)	Was a LASER checklist completed?
Status/Due date Priority/Recommendation: Notes:	N/A Intermediate	08/25/22

Question # (Question ID): Status/Due date

46 (128) Was the LASER tested for proper function and beam alignment prior to the case? 08/25/22

N/A Priority/Recommendation:

Intermediate

Notes:

Question # (Question ID): Status/Due date

47 (129) N/A Intermediate Was Technology Support notified?

08/25/22

Priority/Recommendation: Notes: Question # (Question ID):

48 (130)

Was the LASER activated only by the surgeon or resident under direct supervision of the surgeon?

Status/Due date Priority/Recommendation:

N/A Intermediate 08/25/22

Notes: Question # (Question ID):

49 (131)

Was the LASER placed in "standby" if the surgeon removed their hands or eyes from the field or the LASER equipment?

Status/Due date N/A 08/25/22



Intermediate Priority/Recommendation:

Notes:

Question # (Question ID): 50 (132) Did any situation determined to be "unsafe" arise during the LASER case? N/A 08/25/22

Status/Due date

Intermediate Priority/Recommendation:

Notes:

Question # (Question ID): 51 (133) Was wet draping material used around the LASER site?

Status/Due date

Priority/Recommendation: Intermediate

N/A

N/A

N/A

N/A

Notes:

Question # (Question ID): 52 (134) Was a basin of saline or water (1000cc) available in case of fire? 08/25/22

08/25/22

08/25/22

08/25/22

08/25/22

08/25/22

08/25/22

Status/Due date

Priority/Recommendation: Intermediate

Notes:

Question # (Question ID): 53 (135) Was the LASER procedure on the lower bowel?

Status/Due date N/A

Priority/Recommendation: Intermediate

Notes:

Question # (Question ID): 54 (136) Was the LASER procedure on the trachea?

Status/Due date

N/A Priority/Recommendation: Intermediate

Notes:

Question # (Question ID): 55 (137) Were patient's eyes properly protected for the particular LASER procedure?

Status/Due date

Priority/Recommendation: Intermediate

Notes:

Notes:

Question # (Question ID): 56 (138) Were all personnel within the OR wearing appropriate protective eyewear?

Status/Due date

Priority/Recommendation: Intermediate

Notes:

Question # (Question ID):

57 (139) Status/Due date N/A

Priority/Recommendation: Intermediate

Notes:

Question # (Question ID):

58 (140)

59 (141)

N/A

Status/Due date Priority/Recommendation: Intermediate

N/A

Were ebonized or matted instruments used during the LASER procedure? 08/25/22

Did the LASER procedure utilize a microscope or endoscope?

Question # (Question ID): Status/Due date

Priority/Recommendation: Notes:

Intermediate

Were instruments covered with wet towels or gauze to decrease reflection?

08/25/22



Question # (Question ID):	60 (142)	Were LASER masks worn by all present during the LASER procedure?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	
Notes:		
Question # (Question ID):	61 (143)	Were gloves worn during the procedure?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	
Notes:	62 (444)	Was a smake execution unit used during the LASER presedure?
Question # (Question ID): Status/Due date	62 (144) N/A	Was a smoke evacuation unit used during the LASER procedure? 08/25/22
Priority/Recommendation:	Intermediate	00/25/22
Notes:	memediate	
Question # (Question ID):	63 (145)	Was it laryngoscopy procedures and were regular suction tubing & canisters used?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	
Notes:		
Question # (Question ID):	64 (146)	If fluids were present was an evacuator suction bottle used in conjuction with the smoke
		evacuator?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	
Notes:	05 (4.47)	Mee the smaller apparentian to bigg hant in along provincity (long them 411) to the LACED tissue
Question # (Question ID):	65 (147)	Was the smoke evacuation tubing kept in close proximity (less than 1") to the LASER tissue interaction site?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	00/23/22
Notes:	momodate	
Question # (Question ID):	66 (148)	Are filters in the smoke evacuator changed according to the manufacture recommendations
,	,	and properly discarded in red biohazard waste bags?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	
Notes:		
Question # (Question ID):	67 (149)	If an endotracheal tube was used, was it a "LASER safe endotracheal tube?
Status/Due date	N/A	08/25/22
Priority/Recommendation:	Intermediate	
Notes:	CO (4EO)	Mes a plantic varinal or reatal apocular used?
Question # (Question ID): Status/Due date	68 (150) N/A	Was a plastic vaginal or rectal speculae used? 08/25/22
Priority/Recommendation:	Intermediate	UQ/23/22
Notes:	intermediate	
140.00.		