



# THE **L**ASER COURSE

*Medical Laser Safety Officer  
& Surgical Operator/Assistant*

Become a  
**CERTIFIED MEDICAL LASER SAFETY OFFICER**



## The Laser Training Institute™

a training division of

**Professional Medical Education Association, Inc.**

*not-for-profit education, est. 1980*

**800-342-2704**

**[www.LaserTraining.org](http://www.LaserTraining.org), [www.LaserCertification.org](http://www.LaserCertification.org)**

←—————→  
Physicians, Nurses, Surgical Technicians, Biomed, Aestheticians, Practice Owners

Please check our website for the current schedule of dates and cities.

This is primarily given in Columbus Ohio, but rotates through other cities.

**[www.LaserTraining.org](http://www.LaserTraining.org)**

**Note for Aesthetic Laser Operators:** Laser Safety Officers are a requirement in offices, MediSpa's or any type of clinic or office offering laser treatments. This two day program prepares you for the duties of medical laser safety officer, and provides the appropriate Certificate for use by your insurance company or State registration. Please note however that training as an LSO is a separate issue from training in clinical aesthetic laser procedures—a three day program we also offer. Each clinic or office is required to have one Laser Safety Officer, and compliance with ANSI safety standards is a requirement of most malpractice insurance companies.

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COURSE  
DESCRIPTION: *The "Surgical Booties Camp" of Laser Training*

***The Laser Course***

Medical Laser Safety Officers &  
Surgical Operators / Assistants



This program is utilized by Nurses, Physicians, Technicians, Aestheticians and Biomedical Engineers to meet the educational requirements for Laser Safety Training required by A.N.S.I... Additionally, the course trains Laser Safety Officers (LSO's) who have been given the responsibility of establishing the institutions' Laser Safety Program. As part of this course, a basic Laser Powerpoint presentation is provided that can be used for teaching purposes for your own staff. It also includes a full PowerPoint presentation with embedded videos on Airway Laser Safety for Hospital LSO's. The full two day program provides a thorough understanding of all procedures required to ensure compliance of your laser safety program with ANSI, OSHA and JCAHO, and meet various State requirements, for both Hospitals or private practices.

**BONUS for 2 day LSO attendees** – you will receive a package of 10 accredited online "Laser Techs – Safety & Operation" course that you may utilize for training of your own staff.

**OPTIONAL 3<sup>rd</sup> Day for Advanced Laser Safety Officer! - Columbus Ohio location only**

– Hands-on operation of various medical lasers. See information on our website for content of this Advanced training. You receive experience with live firing of various types of laser systems and includes accidental fires, fiber breakage and other safety issues. If you are attending a 2 day LSO class that is NOT in Columbus Ohio, you may register for this 1 day advanced class in Columbus separately from your 2 day LSO course.

*The Safety presentations we use in this program are the same Safety materials we have developed and presented on behalf of the American Society for Laser Medicine & Surgery (ASLMS) for use in training at their annual Scientific meeting, and regional courses. We previously presented the Laser Safety portions of that training for the ASLMS. The instructor, Gregory Absten, is a recipient of the ASLMS "Excellence in Education" award.*



**BECOME A CERTIFIED MEDICAL LASER SAFETY OFFICER!**

The NCLC LASER CERTIFICATION PROGRAM for LSO's will be discussed at this program, and Certification Exams and Intensive Review taken at the option of the participant the last afternoon, at no additional charge. The ANSI Standards now RECOMMEND the Certification.

This is the "Boot Camp" Laser course to gain a solid foundation in Medical/Surgical Laser Safety, earn a certificate of Laser Training, and optionally sit for the Medical Laser Safety Officer Certification Exam.

**Medical Laser Safety Officer &  
Surgical Operator / Assistant**  
*A Laser Certification Preparation Program*  
**2 Day Course Outline**

**Day 1— 8:00am-5:00pm**

**SESSION I:**

7:30 am **Registration & Coffee**

7:55 am **Course Introduction**

8:00 am **Fundamentals of Laser & Light Use (Laser Biophysics), & Tissue Effects**

Practical laser biophysics - Types of Lasers & Light Sources - Pulse lengths - Wavelengths  
- Energy Concepts – Dosimetry – Delivery Systems - Thermal Relaxation Times - IPL vs Laser  
Light/Tissue Interaction - Photodynamic Therapy—Pulsing & CW beam delivery— Delivery devices

9:30 am **BREAK**

9:45 am **Continue with Fundamentals of Laser & Light Use**

12:00 **LUNCH** - Provided

1:15 pm **Laser Safety - Risk Assessment, Administrative & Procedural Controls**  
**Compliance with ANSI standards**

2:15 pm **BREAK**

2:30 pm **Laser Safety Continued—Laser Safe Practices**

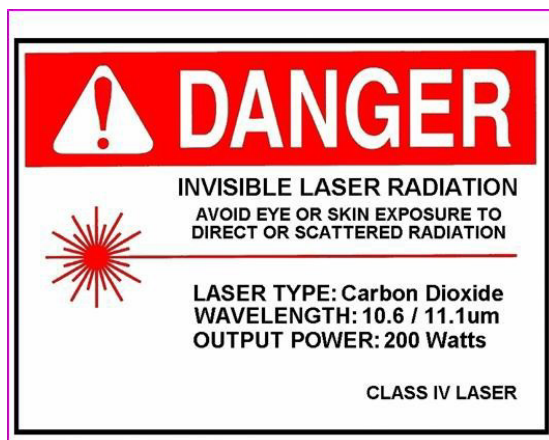
3:30 pm **BREAK**

3:40 pm **Laser Safety Including Considerations for Surgical & Aesthetic Environments**

4:40 pm **Discussion**

5:00 pm **Adjourn**

(420 actual minutes)



**ONLINE LSO COURSE** - This program is also available as a computer based Online Training program. It's available on an individual basis, or in blocks of 2-7 individuals at discounted fees. The Laser Certification Exams may only be administered at in-person seminars, but the online course will meet the requirements for eligibility to take the exam, and you may apply for and take the exam separately from the online course.

Information is available at [www.LaserTraining.org](http://www.LaserTraining.org) under the "Computer Based Learning" page.

**Medical Laser Safety Officer &  
Surgical Operator / Assistant**  
*A Laser Certification Preparation Program*  
**2 Day Course Outline**

**Day 2— 8:00am-4:30pm** (the ending time depends on how long you take to test at the end)

**SESSION I:**

7:30 am **Coffee & Sign-in**

8:00 am - 11:00 am

**Review of ANSI 136.3 Standards—Safe Use of Lasers in Health Care Facilities  
(American National Standards Institute)**

10:00—10:15 am BREAK

11:00 am **CERTIFICATION REVIEW**—Detailed “Jam Session” Review for NCLC Medical Laser Safety Officer Certification (Now recommended by ANSI Standards). Note that each individual will be setup in advance at no charge for the online LSO practice exam that self grades as you go along.

12:15 LUNCH – On your own.

(at option of the class, we may elect to skip lunch and start testing right after the review, so that you can finish early)

1:30 pm **NCLC LASER CERTIFICATION EXAM—PROCTORED TESTING**

This Certification exam is at the option of the attendee but included in this program

3 hours is allotted for the testing. Many finish within 2 hours.

Participants will know their score before leaving.

There is no “down-side” if you do not pass the exam the first time. You still receive your accredited Certificate of Laser Training from the course itself.

4:30 pm **Adjourn—Awarding of Certificates of Laser Training**

(You can leave whenever you are finished with the examination)

(405 actual minutes)



**Candidates should review in advance all Certification Requirements contained in the Certification Handbook.**

**NCLC Certified Medical Laser Safety Officer (CLSO/M)**

[www.LaserCertification.org](http://www.LaserCertification.org)

Offered since 2000, the Medical Laser Safety Officer certification is administered through the National Council on Laser Certification. We will administer this examination the last afternoon of the course. You may complete the required paperwork at the time of the course and do not need to make advance application.

The Laser Safety Officer Certification is a Professional Credential that reflects your knowledge in this field. This Certification is NOT a requirement of any State but is recommended by ANSI standards. It DOES reflect your professionalism in this field. **You will be setup prior to the course for an online “Practice Exam”** that self-grades online. You can take this as many times as you like prior to the actual exam.



## **FACULTY - Rotating Faculty between:**

**Gregory T. Absten, B.Sc., MBA, CLSO/M**  
Executive Director  
Professional Medical Education Assn.



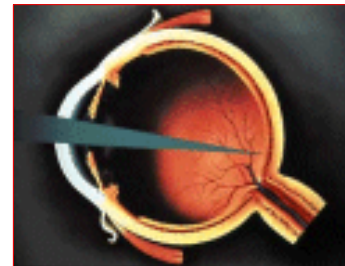
A 41 year veteran in the Medical Laser Field, Mr. Absten is an internationally recognized lecturer and author on the subject of medical laser applications and safety. He is the Executive Director of Professional Medical Education Assn., Inc. -- the non-profit group sponsoring this course through the Laser Training Institute division. A Scientific Fellow with the American Society for Laser Medicine and Surgery, he has served as the Course Director for the ASLMS "Laser Biophysics and Safety Courses" for a number of years at their annual scientific meetings, and has taught for the Nursing Course and "Fundamentals of Laser" Course of this meeting many times. He served as the Exhibits Chairman for the annual Scientific Meeting for more than 14 years, was a member of the Laser Safety committee, and past member of the Board of Directors. He is a member of the ANSI 136.3 Committee on the Safe Use of Lasers in Health Care Facilities, and is on the Board of Directors for the International Aesthetic & Laser Association (IALA). He is a Clinical Instructor with The Ohio State University College of Medicine, and has served as a Director or Advisor to many medical laser organizations. He chairs the National Council on Laser Certification. He has taught hundreds of physician and nursing laser courses and has been actively involved with hands-on physician training in both surgical lasers and endoscopic procedures in most specialties. His initial clinical background in the 70's involved Critical Care patient management as a Registered Respiratory Therapist, while he built lasers at home.

Professional Medical Education Association provides the nursing accreditation for the annual American Society of Lasers in Medicine & Surgery scientific meeting.

Curriculae Vitae available at <http://www.lasertraining.org/Administrative/Library/AbstenCV.htm>  
(You can copy and paste this into your browser)

## **WHY ATTEND?**

- Earn the ANSI Recommended Professional Credentials of Certified Medical Laser Safety Officer (CLSO/M)
- Familiarize yourself with ANSI 136.3 Laser Standards
- Great for Staff turnover and staying current
- This is the MAINSTAY SURGICAL LASER TRAINING PROGRAM in the United States
- Courses consistently rated excellent by past attendees
- 16.1 Nursing Credits
- Physicians can meet the Laser Biophysics and Safety requirements for credentialing
- Ensure your compliance with OSHA and JCAHO - You MUST have a Laser Safety Officer
- Learn about NCLC Laser Certifications for Medical Laser Safety Officers
- Obtain all the teaching materials we provide at the course so you can go home and train YOUR staff, including Laser Airway Safety.
- Qualifies you to attend our one day "Advanced Medical Laser Safety Officer" course in Columbus Ohio for live firing of various lasers and expands on safety issues.



## REGISTER ONLINE AT WWW.LASERTRAINING.ORG

*As a recent attendee stated: "This is a very practical course ..... Though I was initially intimidated by all the material I was expected to learn about lasers, I was pleased to see that it was all presented in a clear and easy-to-understand manner for a staff nurse such as myself to comprehend and use. I'd recommend this program".*



If you only need the 1<sup>st</sup> day of the course as a laser tech/operator, then choose from the pull down menu on the registration page that one day option:

\* Seminar  ▾  
Choose the Correct Course.

If you will be the Laser Safety Officer, or Deputy LSO then choose this from the pull down menu:

\* Seminar  ▾  
Choose the Correct Course.