



# 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*

**800-435-3131**

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

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

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

Please check our website for the current schedule of dates and cities  
primarily given in Columbus Ohio and Marathon Florida.

**[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 forms. Please note however that this is a separate issue from training in clinical aesthetic laser procedures—a three day program we also offer in Columbus Ohio. 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 Biophysics, Tissue Interaction and 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.

*The Safety presentations we use in this program is the same Safety material 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 present the Laser Safety portions of that training for the ASLMS.*



**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.

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** (times may vary slightly from course to course)

**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**

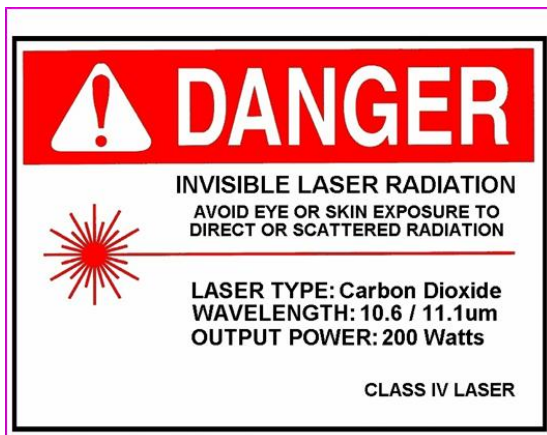
3:30 pm **BREAK**

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** (times may vary slightly from course to course)

**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

12:15 LUNCH - Provided

(at option of each attendee, you may skip lunch and start the exam right away to get out early)

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

This 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 be able to review their score before leaving.

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

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, nor of the ANSI standards as of January 1, 2015. It DOES reflect your professionalism in this field. If you do not elect to take this Certification exam, you will be required to take a “practice” exam which will be self graded, so that your Certificate of Training will provide credits for the entire course time.

## **COURSE OBJECTIVES:**

- Describe the basic biophysics of laser and light
- Name three primary types of surgical lasers and list their wavelengths
- Explain conceptually how lasers work, and explain the differentiating characteristics of laser
- Discuss the pertinent energy, optical and fiber concepts that are applicable to medical laser use
- Demonstrate an understanding of Laser and Energy concepts
- Describe four different types of laser/tissue interactions and explain the importance of thermal confinement to surgical outcome.
- Demonstrate an understanding of the Biological effects of laser on tissue
- Demonstrate an understanding of the pertinent energy, optical and fiber concepts that are applicable to medical laser use, and describe appropriate safety precautions for demonstration type use.
- Describe the types of hazards which laser presents to personnel and patients, along with some of the related hazards associated with laser surgery.
- Explain the safety precautions and procedures recommended by ANSI during laser surgical procedures.
- Demonstrate an understanding of Laser Hazards, Safety, Precautions and Regulations as recommended by ANSI.
- Explain several types of procedures by specialty in which laser energy may be useful and describe in general terms the instrumentation requirements of these various procedures.



**Provider Approved by the California Board of Registered Nursing  
Provider # CEP 12386.**

**Medical Laser Safety Officer Full program with review and examination: 16.1 contact hours**

**Note: Most State Boards of Nursing have reciprocity for accepting credits for continuing education.  
Check with your own State Board of Nursing.  
Certificates of Attendance will be provided.**



**COURSE FEE: includes all materials - \$895**

### **DISCOUNTS!**

2 Registrants! - Two people register together and 2nd person is 15% discounted!

**..... also - prepayment of 30 days or more in advance saves \$100!**

PLUS! - If you buy our Medical Laser Safety Officer Online course through our website in advance, we'll apply 100% of that fee (for one person) toward this 2 day courses if you register within 6 months of buying the online course.

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

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



A 37 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 accreditation for nursing for the annual American Society of Lasers in Medicine & Surgery scientific meeting.

Curriculae Vitae available at <http://www.lasertraining.org/Administrative/Library/AbstenCV.htm>  
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**Dan Little, CBET, CLRT, CMLSO**  
Technical Director  
The Laser Training Institute™ of Professional Medical Education Association

President of Worldlink Biomedical, an independent service group offering Medical Laser Service and Repair. Dan previously served as the Director of Biomedical and Scientific Engineering, and Medical Laser Safety Officer for Roswell Park Cancer Institute in Buffalo NY.

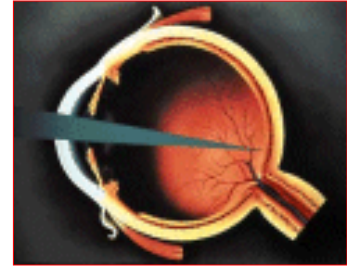
Currently he is the Technical Director for the Laser Training Institute™ of Professional Medical Education Association. He has served as an independent consultant on many different biomedical technology applications, and has held technical positions with various groups since 1972. He teaches in-house aesthetic laser procedures to various manufacturers, clinics and med-spas throughout the U.S., as well as in-house laser training for hospital surgical departments.

Curricula Vitae available at <http://www.lasertraining.org/Administrative/Library/LittleCV.htm>  
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**Other Qualified Faculty as announced from time to time.**

## WHY ATTEND?

- Earn the Professional Credentials of Certified Medical Laser Safety Officer
- 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, qualifies for AAMI Biomed 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.



**REGISTER ONLINE AT [WWW.LASERTRAINING.ORG](http://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".*

