

Laser Certifications & Annual *Laser Safety* Update 2020



Classes held at Marathon Yacht Club (MYC)
Advance Registration and Cocktail Reception Sat Apr 18 from 7-8pm at MYC

Marathon, Florida Keys – A Mindset South of Miami

April 19-21, 2020 Sunday - Tuesday



Professional Medical Education Association, inc.

not-for-profit education, est. 1980

The *Laser* Training Institute™

www.LaserTraining.org

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LASER CERTIFICATION EXAMS ADMINISTERED BY:

National Council on Laser Certification (NCLC)

www.LaserCertification.org

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Course Description: Once a year we offer an "Update" course on Laser Safety and offer any of the NCLC Laser Certifications. It's held in the Florida Keys. We've combined this program with our regular 2 day Medical Laser Safety Officer (LSO) course and Certification testing. The first day of that would apply also to laser techs operating equipment who don't need the full 2 days. Medical Laser Safety Officers do both days. The third day is reserved for the "Laser Update" in the morning, then in the afternoon there is the Aesthetic Laser Operator Certification Review, with testing to follow for qualified individuals. For those taking the LSO Certification exam, the 2 days in class will give you enough hours to qualify to take that Certification Exam. Not so though for Aesthetic Operators. You need 24 hours of formal training in order to qualify to take that exam, and this program itself will not give that to you. For that reason we'll provide our online Aesthetic Laser Course to you at NO CHARGE (\$695 value) whether you attend the full 3 days or just the last day for the Aesthetic Certification. You'll need to show up though in order to receive your Certificate. For those attending the full 3 days who have already had Safety officer or other training, and you don't need to sit through the entire program. You can pick and choose what portions to sit in on and credits on your Certificates will reflect that. Maybe you just want the refresher on the Laser & Energy Concepts the first morning. Maybe you want just the review of the ANSI Laser Safety Standards the 2nd morning. You pick and choose the portions that will be useful to you. The third morning will cover selected short topics as updates in the medical laser field (some of the topics listed in the schedule below).

LASER SAFETY CURRENCY: The ANSI Laser Safety Standards requires recurrent safety training for key staff no less than once every five years, or as often as your program decides. Attending this Safety Update will meet this requirement for any staff and LSO's. If you don't have a copy of these latest standards and you're the LSO, then you need a copy. The "new" Standards were released in 2018 and we'll be going over those in detail. Even though you need to buy a copy of these standards, attendees will receive a "Cliff Notes" summary of them which is easier to read, and contains a list of all of the changes from the previous standard.

LASER SAFETY OFFICERS & OTHERS RE-CERTIFICATION: Every 3 Years. All of the Certified Medical Laser Safety Officers are required to re-certify once every three years. They sometimes find it easier just to retake the exam every three years. We can do this for you at the annual review at no additional cost. Even if you don't need to re-certify yet, it's still very helpful to go through the review just as a refresher. For those Safety Officers who hold a BLS Laser Safety Officer Certification you may upgrade to the original NCLC Medical Laser Safety Officer (MLSO) Certification at no charge and it will be good for another 3 years. ***This year you'll be able to access an online LSO practice exam prior to your attendance, which automatically grades your exam and shows corrections when you get one wrong. The content is very close to the actual exam.***

LASER SAFETY OFFICERS & INITIAL CERTIFICATION: **LASER SAFETY OFFICERS & INITIAL CERTIFICATION:** If you're not already Certified as a MLSO, then here's your chance. The first two days of the Update course has enough hours to qualify you to take the exam. The exams are administered at no additional charge. The 2018 ANSI standards now recommend CERTIFICATION as a Medical Laser Safety Officer.

OTHER LASER CERTIFICATION EXAMS:

AESTHETIC OPERATOR, LASER HAIR REMOVAL, LASER REPAIR TECHNICIAN.

If you wish to pursue Certification as either a Laser Hair Removal Specialist, or the more encompassing Aesthetic Laser Specialist, you may attend the Review and take the Exam at the course. The LSO and the Aesthetic Exams will be available, but you need to let us know in advance if you want that exam. The exam for hair removal will not have a review prior to the exam and you'd need to meet the hours to qualify to take them, but we can provide those exams upon advance request. For Aesthetic Operator and Repair Technician, we will give you advance access to the online practice exams. If you are pursuing an actual CERTIFICATION (not just the Certificate of Training) then review the requirements in the [CERTIFICATION HANDBOOK](#).

Annual Laser Update 2020

April 18, 2020. Saturday

7:00pm-8pm. Sunset Cocktail Reception, and Pre-registration

Marathon Yacht Club, 825 33rd St Gulf, Marathon FL 33050 (Classes held there too)

DAY 1: Sunday Apr 19. - Laser Techs Course, and 1st Day of 2 Day LSO Course

- Dan Little, CLSO/M, CBET, Gregory Absten, CLSO/M

7:30 am - Coffee, Registration

7:55 am - Course Introduction - Clarify the Day 1, Day 1-2, and Day 3 Training and Certifications

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 pm - **LUNCH** - Sandwiches catered in.

1:15 pm - **MEDICAL LASER SAFETY** - Risk Assessment, Administrative & Procedural Controls

Compliance with ANSI Z136.3 Laser Safety Standards

2:15 pm - **BREAK**

2:30 pm - CONTINUE with LASER SAFETY - Laser Safety Practices,

Safety including considerations for Surgical & Aesthetic Environments

5:00 pm - Adjourn -

Day 2: Mon Apr 20 - 2nd Day of LSO Course, plus LSO Certification Exam

- Gregory Absten, CLSO/M

7:30 am - Coffee & Sign-in

8:00 am - 11: am

REVIEW OF ANSI Z136.3 STANDARDS (New 2018 Standards) - Safe Use of Lasers in Health Care Facilities

10-10:15 am **BREAK**

11:00 am **CERTIFICATION REVIEW** - Detailed "Jam Session" Review for

NCLC Medical Laser Safety Officer Certification. You will also be given advance access to the online practice exam.

12:15 **LUNCH** - Provided – Sandwiches catered in

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

This is at the option of the attendee, but included in this program. 3 hrs allotted for 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 the Certificate of Laser Training.

4:30 pm. Adjourn - (You can leave whenever you are finished with the examination)

Day 3: Tues Apr 21 - Annual Laser Update

- Followed by Aesthetic Laser Review & Certification Exam

- Gregory Absten CLSO/M, Dan Little CLSO/M, Don Ciesielski

7:30 am - Coffee & Sign-in

8:00 am - **How to Save Money on Laser Care and Maintenance for the User.** - Don Ciesielski

8:45 am - **UPDATE TOPICS - Medical/Aesthetic** - Gregory Absten CLSO/M

A summary and overview of a few relevant scientific papers presented throughout the year:

Aesthetics:

- The Aesthetic Rush in Medicine – evolution to “Non-Core” physicians and medispas
- Light based home-use hair removal devices – do they work?
- Tattoo Removal – Evaluation of 15 laser and Perfluorocarbon Combinations. What’s best?
- Tattoo Removal – Rapid Acoustic Pulse Devices for single session tattoo removal
- Tattoo Removal – Cosmetic Oral Mucosal Tattoos (inside the lips)

Medical/Surgical:

- Laser Tx of Traumatic and Surgical Scars
- Acne Scar Tx with Fractional Dual Wavelength Picosecond Lasers
- Vaginal Rejuvenation – a cross sectional analysis and cause for concern
- Vaginal Tightening Complications – 3 Cases
- Fractional Laser and other Tx for Urinary Symptoms in Postmenopausal women – a clinical trial

Photobiomodulation:

- Microcirculatory Response to Visible Red vs. Near Infrared laser

A Glimpse at the future:

- Laser Ultrasound – MIT article
- Non-invasive Laser sensing and destruction of cancer cells in blood stream – IEDS spectrum article
- Optically regulating the fate of endothelial colony-forming cells – Angiogenesis after myocardial infarct
- Artificial Intelligence and laser imaging to classify brain tumors
(and possibly all pathology in the future in near real-time)

Laser Certifications – growing worldwide base of regulatory authorities requiring certifications

9:30 am – **BREAK**

9:45 am - **Update Topics Continued**- - Gregory Absten CLSO/M

11:45 **QUESTIONS** -

Followed by Information on benefits of joining the American Society for Laser Medicine & Surgery

12:00 LUNCH – Provided at Marathon Yacht Club

1:00 pm - **Aesthetic Laser Operator Certification Review**

Followed by the proctored **Laser Certification Examination**

Advance access to the online practice exam will also be provided. Those requesting other exams such as Laser Hair Removal or Laser Repair Technician must make these requests in advance of the course and meet the qualifications to take the exam.

5:00 pm - **Adjourn**

(On both days we'll review your completed exam (exams are optional) before you leave so you'll know how you did on the test. If for some reason you don't pass the exam the first time, you may retake the exam at a location close to you after 30 days)

Need information or assistance while you're down here in the Keys for this course?

Call Gregory Absten on his cell phone at 305.849.0285

Key West is about a one hour drive from Marathon here in the Keys. When flying in, Key West (EYW) is the most convenient and hassle free. Miami (MIA) is about 2 hours from Marathon, and Ft Lauderdale

(FLL) about 2 hrs 45 mins. Rent a car and drive on down. US Highway 1 through the Keys is marked by mile markers, with Key West at mm "0" and the "18 mile stretch" entrance to the Keys at Florida City about mm "126". From MIA or FLL airports get on the Florida Turnpike South and it will dead end into US 1 at Florida City – keep driving south on US 1 (now called the Overseas Highway) to mile mark 48 in Marathon.

MEETING LOCATION:

Marathon Yacht Club, 825 33rd St Gulfside, Marathon FL 33050, and is about mm "48.8".

Faculty -

Gregory Absten MBA, CLSO/M - Executive Director, Professional Medical Education Assn., member ANSI Z136.3 committee, Board of Directors National Council on Laser Certifications. Former Board Director, American Society for Laser Medicine & Surgery. Bio is on LaserTraining.org website.

Dan Little CBET, CLSO/M - President, Worldlink Biomedical. Technical Director the Laser Training Institute. Certified Medical Laser Safety Officer and Laser Repair Technician. Served as the Director of Clinical Engineering for Roswell Park Cancer Hospital in Buffalo NY for many years, and now runs his own independent laser service company. Bio on LaserTraining.org website.

Don Ciesielski - Independent Laser Service - "Experience, The Solution". Chicago (area) IL. Don has many years of experience as a Biomedical Engineer, and as an independent laser service agent covering a wide variety of laser systems. He also serves as faculty for the Laser Repair Course by The Laser Training Institute given four times per year.

What You Get - included with this course:

- The Lasers in Medicine and Surgery manual, sent in advance electronically (we're green)
- Copy of slides for the presentations (pdf copy)
- Laser Certification Review Outline - for the exam of your choice
- Advance access to the online practice exams
- Online Laser Course - if you need it in order to qualify for the Aesthetic Laser Operator exam, or just the Laser Hair Removal exam
- Accredited Certificates of Laser Training.

Accreditation: - Certificate of Laser Training provided. Accredited by the California Board of Registered Nursing. 24.1 Nursing Contact Hours for the full program, but will vary depending on the segments you attend. Certificates mailed after the course. Qualifies for Category II CME when submitted by the physician.

Provider Approved by the California Board of Registered Nursing, Provider # CEP 12386. Most states offer reciprocity and accept these credits.

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National Council on Laser Certification

www.LaserCertification.org

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COURSE MATERIALS:

- The Lasers in Medicine & Surgery manual will be sent via an email link prior to class
- The 1 day “Laser Technician” and 2 day “Laser Safety Officer” printed slides will be at the course
- The last day “Update” printed slides will be at the course
- Laser Certification Review materials are available for download at www.LaserCertification.org

A SHORT SUGGESTION ON HOW AND WHY TO ATTEND PARTIAL SESSIONS:

Day 1 ONLY: If you need just the basic laser biophysics and safety (such as a nurse or tech running a laser in a hospital), then you can attend just day 1 for that info. **\$475**

Day 1-2 ONLY: If you’d like the complete Medical Laser Safety Officer course, or want to take it again for recurrency training, then it’s the first 2 days. **\$895**. It includes the Medical Laser Safety Officer Certification exam at the end. But then again, the entire 3 day program is just \$895 so you may as well attend the 3rd day.

Day 3 ONLY: If you’re already an LSO and just need to get caught up on the 2018 ANSI Laser standards, then register just for this last day. **\$295**. – AND/OR – If you just want the Aesthetic Certified Laser Operator Review and exam, then it’s the same thing - \$295 and you get the entire day, plus no additional fee for the Certification exam. The issue with the Aesthetic Certification is that there is not enough time to do an entire course to qualify you to take the exam. For that reason, if you want to come for just the last day we’ll set you up to take the Aesthetic Laser Course online in advance at no additional charge – that would ordinarily cost you \$695. Here you get it for free by just registering for the one day at \$295. You have to show up though – if you don’t show then you also will not receive the Certificate for the online training portion.

All 3 Days – Still just **\$895** as mentioned above. You meet ANSI recurrency requirements, get your MLSO training and take the certification exam, get the annual laser update, and even take the Aesthetic Laser Certification and Review if you qualify.