

Laser Certifications & Annual *Laser Safety* Update 2019



Classes held at Marathon Yacht Club (MYC)
Advance Registration and Cocktail Reception Weds Apr 3 from 7-8pm at MYC

Marathon, Florida Keys – A Mindset South of Miami

April 4-6, 2019 Thurs-Sat



Professional Medical Education Association, inc.

not-for-profit education, est. 1980

The *Laser* Training Institute™

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LASER CERTIFICATION EXAMS ADMINISTERED BY:

National Council on Laser Certification (NCLC)

www.LaserCertification.org

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Course Description:

WOW! – WHERE else could you do all of this!?

- Get your LSO INITIAL TRAINING AND take the NCLC LSO CERTIFICATION EXAM (2 days)
- RE-CERTIFY as a CERTIFIED LASER SAFETY OFFICER – just retake the exam at no additional charge
- Get your Laser Technician safety training if you're a medical/surgical operator (1st day)
- Receive "Around the World" Laser Technical and Medical/Aesthetic updates (1/2 day)
- For qualified individuals – attend just the 3rd day for the Aesthetic CERTIFICATION REVIEW & EXAM.
(1/2 day - Don't already meet the qualifications? – then take our online course in advance for FREE to qualify – a \$695 value BY ITSELF)
- Arrange for other NCLC Certification exams for qualified individuals – for initial Certification or Re-Certification: Laser Hair Removal, Laser Repair Technician
- Attend only the days/sessions applicable to you. Sign in and out, and credit hours on the Accredited Certificates of Training will be adjusted accordingly.
- Meet the RECURRENCE requirement of ANSI Z136.3 Standards for periodic laser retraining.
- Learn how to SAVE MONEY on normal care and maintenance on your own lasers.

ANNUAL UPDATE: Once a year we offer an "Update" course on Laser Safety and offer any of the NCLC Laser Certifications. This year we're back in the Florida Keys after Hurricane Irma cancelled last year's plans. 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 (topics listed in the schedule below).

LASER SAFETY CURRENCY: The ANSI Laser Safety Standards requires recurrent safety training for key staff at least once every five years. 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 if you sit for the exam it will be good for another 3 years. This also applies for Laser Repair Technicians and Laser Hair Removal Specialists, and Certified Aesthetic Laser Operators.

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 other exams for hair removal, repair technician, etc, will not have reviews 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. If you are pursuing an actual CERTIFICATION (not just the Certificate of Training) then review the requirements in the [CERTIFICATION HANDBOOK](#).

Hotels - Here are some of the Hotels/Motels in Marathon. They range from the pricey, to mom and pop affordable. I have not listed any of the "dive" motels here - anything on this list is clean and reasonable. For active or retired US military personnel, the US Coast Guard Station Marathon has some vacation cottages on base for qualified military personnel.

[Hyatt Place](#), Faro Blanco (close)

[Marriott Courtyard](#) (close)

[Holiday Inn Express](#) (3-4 miles)

[Tranquility Bay](#) (close, but pricey)

[Banana Bay Resort](#) (close)

[The Hammocks at Marathon](#) (close)

[Sea Dell Motel](#)

Ranch House Motel - No website. (305) 743-2217

[Skipjack Resort & Marina](#)

[Coconut Cay](#) (medium)

[Hawk's Cay Resort](#) (10+ miles, Pricey & high end)

Annual Laser Safety Update 2019

April 3, 2019. Wednesday

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: Thurs Apr 4. - 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** - Provided. Marathon Yacht Club

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: Fri Apr 5 - 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

12:15 **LUNCH** - Provided - Marathon Yacht Club

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: Sat Apr 6 - 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 - - Dan Little CLSO/M

UPDATE TOPICS - Technical - will include, but not be limited to, short summaries of:

- Remarkable technical advancements in Femtosecond lasers for Medical Applications
- New fiber optics for short wavelength, short pulsewidth high power lasers
- Tunable Visible Spectrum LED and Laser Light Sources
- Invention of Optical Tweezers for Micro-robotical "Surgery"
- Whispering lasers into your ear via Ho:YAG Photoacoustic Shockwave Mechanism
- A New Approach to Realization of the "Star Trek Cloaking Device"

9:30 am – **BREAK**

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

UPDATE TOPICS - Medical/Aesthetic - will include, but not be limited to, short summaries of:

- TiSapphire Picosecond Tattoo laser for laser resistant Green, Blue and Purple ink.
- Fractional CO2 Laser Resurfacing for Skin Grafts
- Smartphone Imaging of Subcutaneous Veins
- Topical Brimonidine reduces IPL induced Erythema
- Laser Fabric Cures Skin Diseases
- Multifractional Er:Yag Treatment of Stria Distensae
- Long Pulsed 1064nm Nd:Yag for Treatment of Basal Cell Cancer
- Wearable sensors (optics) challenge traditional medical technology
- Sequential Facial Rejuvenation using IPL and nonablative fractional Laser Treatment
- The growing role of Lasers in treatments for better blood flow
- Stereotaxic Brain Surgery with Tm:Fiber Laser

11:45 **QUESTIONS** -

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

12:00 LUNCH – Provided, Marathon Yacht Club

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

Followed by the proctored **Laser Certification Examination**

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".

Pricing

\$895 regular registration fee for the full three day program. The price is the same if you attend just the 2 day LSO portion.

\$475 for those attending only day 1 of the program - for laser techs operating lasers - generally in hospitals for physicians.

\$295 for those attending only day 3 of the program - the UPDATE portion, plus the Aesthetic Laser Review & Exam at your option.

ON THE ONLINE REGISTRATION FORM - JUST INDICATE WHICH DAY(S) YOU ARE ATTENDING IF IT IS NOT FOR THE FULL COURSE, AND YOU WILL BE CHARGED ACCORDING TO THE PRICING LISTED ABOVE - OR JUST CALL US.

ANSI Z136.3 Standards - \$159. Include request with your registration. If you already have access to a copy you don't need another, and only the LSO's really require a copy.

Just use the online registration at either the \$895, \$495 or \$295 price to register. Enter into the "Remarks" section which days you're taking if not the entire 3 days, and "TAKING EXAM" to register for any Certification Exam. Of course, you can always pick up the phone and call us (614.883.1739) after you register as well. If you are registering for the 3rd day for the Aesthetic Exam, and need the online course first to qualify, then note that in the remarks as well and we can get you setup.

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, and International Aesthetic & Laser Association. Former Board Director, American Society for Laser Medicine & Surgery. [CLICK for more complete Bio.](#) (opens as .pdf)

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. [CLICK for more complete Bio.](#) (opens as .pdf)

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
- Online Laser Course - if you need it in order to qualify for the Aesthetic Laser Operator 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.

**The Laser Training Institute,
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