

The Laser Training Institute™

Professional Medical Education Assn, inc

- not-for-profit continuing education, est. 1978 -

800-342-2704

LASER MAINTENANCE & REPAIR TRAINING



Medical & Aesthetic **L**aser Maintenance and Repair

Seven day course given quarterly in Columbus, Ohio - established originally in 1984

Click on the "Seminar Dates" at left to check dates.



sign up now

Payment Required
at time of attendance

\$7550, discounts available (see below)
Includes 8 hotel nights and most meals

A "Laser Mechanics" Class

For Hospital based Biomedical Engineers,
and Office based Aesthetic Practice Technicians & Owners

"The course gives you the knowledge and practice so that when you leave you are familiar with general laser concepts. It also includes preventative maintenance and repairs for the 4 types of lasers (Hands-On.) I believe the most important part is that you become part of a network that have years of experience in the laser field and are willing to help."

- Tynetta Silmon, Baylor St. Luke's, Houston, TX

NOTE – This is a PDF print of our web page for this course. It's useful because you can pass it around to staff and management for easier sharing. There is much more depth if you go to the web page at https://lasertraining.org/Laser_Repair.html. You can also register from that page.

Class is given quarterly. Upcoming classes are:

Aug 14-20, 2026 Fri-Thu, Nov 13-19, 2026 Fri-Thu, Feb 19-25, 2027 Fri-Thu

Pricing and Discounts:

\$7550 includes the course, 8 hotel nights, all breakfasts and lunches, and one group dinner, plus the fee for the NCLC Laser Certification exams if taken.

A \$600 discount is provided for payments received by us 20 days or more in advance.
(additional discounts are offered for multiple attendees at one course from the same facility - call us)

Full payment is required prior to attendance at the program.

(*Purchase orders should be made out for the full course fee of \$7550, and the invoice will state the discount that may be taken by these dates. Registrants from outside the United States

will be required to submit payment in US Dollars prior to the course, to guarantee the hotel reservation - this prepayment also qualifies them for the applicable discount)

What You Get:

- Seven Day Course. Printed b/w course manuals. Electronic color pdf copy of the powerpoint presentations and course manuals.
- Hotel for 8 nights - Drury Inn Grove City Ohio,
- All breakfasts, lunches and one group dinner
- Laser Repair Technician Certification Exam - through the NCLC. Taken at the option of the attendee but included with the course.
- Online access to the practice Certification exam, which self grades as you go along.
- Online access to the first 2 days lectures, if you want to view in advance.
- Misc laser resources and materials provided on a memory stick for each student (articles, laser videos, presentations, etc)
- Access to faculty on an ongoing basis for continued support. Basic phone support for free and technical backup at competitive rates.
- Eligibility to register for individual "Advanced" training on specific makes/models of lasers, at your own facility or the faculty's. (must be an alumnus to be eligible)

Laser Certification Exams

The various Laser Certifications offered through the NCLC are voluntary professional credentials. They are not a requirement to perform Laser Maintenance and Repair but do reflect a higher level of knowledge to the holder of the Certification. This course does qualify one to sit for the NCLC Laser Repair Technician Certification at the course end, and the testing/application fee is covered as part of this course. Participants are encourage to download and read the [Laser Certification Handbook](#) for details including the discussion of "Certification Candidates" vs full Certification.

Facilities:

[Drury Inn & Suites Grove City OH](#) (sometimes alternate locations)

We book your hotel for the repair course. *Note - we prepay the hotel costs for you and make all arrangements, so don't book rooms separately.

[Classes are held in our office at:](#)

3142 Broadway, Suites 200-201

Grove City, OH 43123

Tel: 614.883.1739

Transportation: We'll all meet in the lobby of the hotel the first day. Most people will have

rental cars so we'll car pool all week to the classroom which is about 15 minutes away.

If you don't have a car we'll find transportation for you, including driving in with our faculty staying at the hotel. You will still need a shuttle to the hotel from the airport.

Course Description:

YES! You can learn to maintain and repair your own lasers! These are primarily directed toward Biomedical Engineers working in hospitals and medical facilities, but anyone that is technically inclined can learn to perform regular preventive maintenance and front line troubleshooting of lasers. We have technicians who come from aesthetic laser practices, and occasionally even individual physicians. No special licensing or permissions are required from government agencies nor the laser manufacturer (kind of like working on your own car). The more you know about optics and electronics the better you will do in the long term, but all you really need to know for regular laser maintenance is basic electricity and how to use a meter, and basic mechanical systems like plumbing and cooling systems. This is NOT a Laser Engineering Course. It is a Laser Mechanics course to teach you how to fix your own lasers and save lots of money. The course will integrate you into a network of laser service and parts providers that can help back you up when you need it. Faculty offers free advice after the training on a limited basis, but will offer you good rates to come in as your service backup as well. Laser Certification exams are optionally provided at the end of each week long course.

Our seven day school is designed to teach hands-on procedures (alignments, calibrations, optics assembly & cleaning, etc.) to the electronically experienced biomedical engineer. The first four days of the program focuses on the CORE laser & optical components and subassemblies that are common to all laser systems (like a general mechanics class for cars). This allows the engineer to provide periodic maintenance on ALL of their hospital laser systems and provide front line service repair on most. This is accomplished through extensive hands-on work with CO₂, Argon, and Nd:Yag laser systems which are representative of most subassemblies in ALL lasers. The last three days of the program delve into more depth with some specific laser systems and spends more time with ophthalmic laser systems including Q-switched Yags, and the surgical Ho:Yag. Procedures on the KTP, Diode, Pulsed dye and Alexandrite lasers are reviewed in demonstration and Videoconferences. Specific procedures on additional models of lasers will also be performed, and these additional models will rotate and change from course to course. The weeklong program will cover theory on laser biophysics, more advanced laser physics and laser electro-optics, and biological effects and surgical techniques which are all included on various sections of the NCLC laser certification exam. An adequate faculty to student ratio is always maintained by expanding faculty based upon course registration to keep it approximately 2-3 students average per faculty. Most classes average 8-12 students and we

cap it at 15. An intensive review session is held at the end of the class in preparation for the Laser Certification exam, for those taking it – and you'll also have access all week for the online practice exam for use after class or during breaks. Don't expect to be a laser expert at the end of the course and fix anything, but you can expect to provide normal laser preventive maintenance, frontline troubleshooting and replacement of standard components like flashlamps, dye cartridges, deionizer cartridges and optics.

This is a comprehensive program on Laser Repair. It starts at the beginning and sets the foundation for learning laser optics and subassemblies in most systems, and teaches "bread and butter" alignments, PM's and troubleshooting on the "mainstay" lasers. It then focuses on more specific types of lasers and more in-depth procedures on ophthalmic lasers and systems such as Pulsed Dye and KTP lasers. The course emphasizes "hands-on" with LOTS of touching and doing and works toward developing an underlying understanding of lasers and maintenance procedures, rather than rote rule memorization. This is truly a "Laser Mechanics" course.

ADVANCED TRAINING - MAKE/MODEL SPECIFIC: Our week long course described above is the general laser repair course and will get you started with PM's and basic front line repairs on most of your lasers. We do offer separate Make/Model specific training and the general course is a pre-requisite to being accepted into these advanced classes. These can be done either on-site at your facility, or are given periodically in our Ohio office, but are available only to alumni of the general Laser Repair Course.

COURSE FACULTY:

(Usually 5-6 faculty physically present each course. Others through videoconference)

You'll get all of their contact information during class so you can use them as a backup if needed, or just free advice and direction over the phone.

Dan Little - WorldLink Biomedical, NY - retired

Gregory Absten - Professional Medical Education Assn, OH

Herb Deigl - Universal Medical Lasers, FL - retired

Wayne Delgado – Amtech Medical, FL

Keith Stechow - Surgical Laser Services, NYC

Jim McDaniel - West Coast Lasers, CA

Don Cielsielski - Experience-The Solution, WI

Paul Vargas - Satus Medical, Lake Forest CA

Jonathan Stechow – Laser Service Engineering, Capron VA

COURSE DIRECTOR:



Curricula Vitae provided for purposes of CME/CEU applications & approvals for courses or accreditation. Any other use is strictly prohibited.

Nov 2025

Gregory T. Absten BSc, MBA

Executive Director of Professional Medical Education Association,

Mr. Gregory Absten, has been actively involved in the Medical Laser field for more than 47 years, with an initial background in critical care and surgery in the Allied Medical areas and Critical Care Medicine. He is an internationally recognized lecturer and author on medical lasers and has taught hundreds of surgical and nursing courses in every specialty over the years. He is founder and Executive Director of the nonprofit Professional Medical Education Association and chairs the National Council on Laser Certification - a laser credentialing board of the nonprofit group. A Scientific Fellow with the American Society for Laser Medicine and Surgery (ASLMS), he served as the Course Director for their "Laser Biophysics and Safety" workshops for more than eight years, and as the Exhibits Chairman at their annual scientific meeting for more than 15 years. He has served on the Board of Directors of the ASLMS in the Laser Safety seat and has sat on their committees for Education & Training, Safety, and Communications. He sits on the A.N.S.I. Z136.3 Committee for the "Safe use of Lasers in Health Care Facilities" and is the lead member for the Education and Certification, and the Regulatory and Legislative subcommittees. This background has enabled us to offer a variety of standardized and customized laser training programs for physicians, nurses, laser safety officers, technicians, and biomedical engineers -- utilizing both Mr. Absten and Physician, Nursing & Technical faculty from around the nation. He holds all the NCLC Laser Certifications.

**Professional Medical Education Association is a
NON-PROFIT, 501(C)3 TAX EXEMPT ORGANIZATION established 1978. (Tax ID: 31-1014446)**

Our two independent operating divisions are:

Laser Training Institute, and
National Council on Laser Certification

Contact Gregory Absten for more information:

Absten@LaserTraining.org, Cell 305.849.0285, Office 614.883.1739

<https://LaserTraining.org>

<https://LaserCertification.org>

<https://LaserRegistry.org>

<https://www.youtube.com/@lasertraining/videos>