

**January  
2024**

**Professional Medical Education  
Assn., Inc.  
The *L*aser *T*raining *I*nstitute™**



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**C**omputer **B**ased **L**earning Programs

## ***Laser Remote Learning***

***For Surgeons and Medical Doctors, Dentists, Nurses,  
Technicians, Therapists, Aestheticians, Physician Assistants,  
Staff Safety Training, Administrators, Business Owners  
and Laser Repair Technicians.***



***Please feel free to distribute and pass around this PDF Catalogue.  
It contains active hyperlinks to Free Laser Resources, Course info and  
even introductory Videos and PowerPoints.***

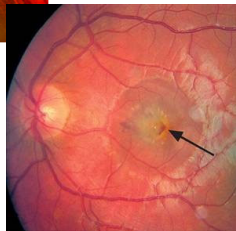
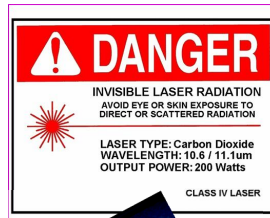
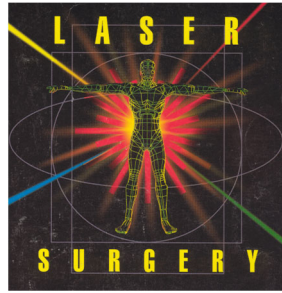
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**<https://LaserTraining.org>**

**<https://LaserCertification.org>**



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## Aesthetic Laser & Light Based Procedures

### The “Boot Camp” of Laser Training

These are all non-medical, simple cosmetic procedures performed with lasers or light based devices such as IPL or LED banks. This program is the way to get started in this field and see how the various laser modalities are used in the various applications and important considerations to avoid patient injuries. You'll learn about the types of devices and be better prepared to knowledgeably discuss equipment with manufacturers before you commit to expensive purchases. You'll learn the types of devices and the basic way they're used, important energy and dosimetry concepts, and both treatment safety and general laser safety.



**THIS INCLUDES THE LASER HAIR REMOVAL & TATTOO REMOVAL MODULES**

Many training groups that provide their own hands-on clinical training also use this accredited course as the academic didactic portion of the training for their students.

### Nurses, Aestheticians, Technicians and Physicians

Although this program is a great way to start for those individuals working outside of a medical practice, for those nonphysicians working WITHIN a medical practices it's absolutely the way to go. You'll get all of your academic training here and then have the benefit of medical staff or more senior technicians in your office to complete the hands-on training. It consists of 22 modules broken into 13 topics. The first part of this course INCLUDES the Laser Hair Removal course, but then continues on with expanded content in other areas. The course modules include the following topics:

1. **SKIN & HAIR BIOLOGY—As it relates to laser & light based treatments**
2. **FUNDAMENTALS OF LASER & IPL USE AND ENERGY CONCEPTS**
3. **TISSUE OPTICS AND LASER EFFECTS**
4. **LASER DEVICE SETTINGS**
5. **LASER HAZARDS & SAFETY**
6. **LASER & IPL HAIR REMOVAL**
7. **LIGHT BASED NON-ABLATIVE SKIN REJUVENATION**
8. **BENIGN PIGMENTED LESIONS**
9. **LASER TATTOO REMOVAL**
10. **TREATMENT OF RED VASCULAR LESIONS & AREAS**
11. **ABLATIVE AND FRACTIONAL SKIN RESURFACING**
12. **SUSPICIOUS SKIN LESIONS — Awareness for Non-Medical Personnel**
13. **LASER & IPL ACCIDENTS & TREATMENT COMPLICATIONS**

**\*Note—various states have differing requirements for licensure of non physicians to perform these procedures, and some have none at all. It is up to the student to determine those requirements and the suitability of this course prior to purchase.**

**This is a great program to offer in Dermatology Residency Programs.**



**If you're viewing this on your computer and online, just click these Links:**

- [\*\*FREE PREVIEW OF THE COURSE\*\*](#)
- [\*\*ARTICLE on Training, Certifications and Licensing Issues\*\*](#)
- [\*\*CERTIFICATION HANDBOOK\*\*](#)
- [\*\*ONLINE REGISTRATION\*\*](#)



**Price: \$695 for one person.**

**\$995 for two persons—PLUS allows you to add up to 5 additional people at only \$125 each! This is a great way to provide quality training at economical prices to your entire staff!**

**Aesthetic Laser & Light Based Procedures**

**The Course includes online access to the narrated and illustrated lectures (about, 20+ hrs) a 199 page PDF course manual (20+ hrs) a 650 page PDF narrated copy of all the slides, and a Certificate of Laser Training. Online quizzes are at the end of most modules which you must pass with a 70% or greater score. If for some reason you don't pass a module we'll reset you for that at no charge. You'll listen to the online lectures but must also study each chapter of the book. It includes forms and checklists that are valuable in establishing this type of practice.**

**Approved for 41.2 Nursing CEU's.**

## Aesthetic Laser Employee Orientation

# Aesthetic Procedures, including Laser & IPL



### EMPLOYEE ORIENTATION

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[WWW.LASERTRAINING.ORG](http://WWW.LASERTRAINING.ORG)

ACKNOWLEDGEMENT GIVEN TO THE FOLLOWING PROVIDERS OF  
INFORMATION AND MATERIALS:  
PURE MEDSPA / ALLERGAN INC / ZyDerm / ZyPlast / Fascian / CosmoPlast  
/ Juvaderm / Restylane / Perlane / Radiesse / Syneron / ElimInk /  
LipoDissolve / VelaShape

**Price:** \$125 for one person.

\$295 for a package for 5 persons total, to add at any time. This is a great way to provide quality training at economical prices to your entire staff, and have accredited Certificates of Training to show for it. This is oriented toward your “non-clinical” staff so that they may more knowledgeably discuss aesthetic procedures with clients. It is NOT a “how to” program, although we do offer those. This program is not audibly narrated, so the student reads through each slide. It’s estimated to take about 1.5-2 hrs to complete, depending on the speed of the student. Includes a PDF printout of all of the slides.

**Accredited for 1.8 Nursing Contact Hours . Formal Certificates presented.**

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## Program Goals



This program is intended to provide Aesthetic Practice employees with an understanding of the major laser and light based, and other common aesthetic procedures that are offered to clients, and a working knowledge of the rationale behind these therapies and technologies so that you may speak knowledgeably about them to clients. This is general information, but you must know what is specific to your own practice and your available modalities, so learn what you have available to offer.

We'll start with a foundation in basic skin anatomy and physiology and then build on this by looking at the various services offered and the unique technologies that are utilized.

This orientation program is NOT intended to teach specifics about the procedures and technologies, nor how to actually apply them to clients.

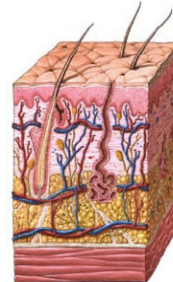
Our nonprofit organization does offer such inhouse training.

1. Basic Skin Anatomy & Physiology
2. Botox™ Treatments
3. Dermal Fillers
4. Basic Laser & Energy Concepts
5. Tattoo Removal
6. Laser & IPL assisted Hair Removal
7. Skin Rejuvenation – Light Based / Microdermabrasion / Chemical Peels
8. Fractional Skin Resurfacing
9. Vascular Treatments – Laser and Sclerotherapy
10. Body Contouring – Cellulite & Circumferential Reduction
11. Pain Management – Sedation & Comfort Alternatives
12. Client Interview & Screening

## LASER & LIGHT BASED HAIR REMOVAL

### IF YOU WANT JUST LASER & IPL HAIR REMOVAL, THIS IS THE PROGRAM.

Learn how to safely perform laser hair removal, and how to select your clients and types of lasers based on their skin types and hair color. This is a nonmedical procedure that is easily learned. Make sure that you take a course like this **BEFORE** you invest in equipment. If you run clinical training then use this for the academics.



### This course is actually the first 6 modules of the Aesthetic Laser Procedures Course.

This program is actually the first 6 modules of the more comprehensive Aesthetic Laser & Light Based Procedures course, and applies to the same types of individuals taking the course. If you buy that Aesthetics course then you already have this one. If you're just interested in hair removal then this program is more cost effective than the entire aesthetic laser procedures course. It consists of these modules:

1. **SKIN & HAIR BIOLOGY**—As it relates to laser & light based treatments
2. **FUNDAMENTALS OF LASER & IPL USE AND ENERGY CONCEPTS**
3. **TISSUE OPTICS AND LASER EFFECTS**
4. **LASER DEVICE SETTINGS**
5. **LASER HAZARDS & SAFETY**
6. **LASER & IPL HAIR REMOVAL**

**\*Note**—various states have differing requirements for licensure of non physicians to perform these procedures, and some have none at all. It is up to the student to determine those requirements and the suitability of this course prior to purchase.



The Objective in Laser or IPL hair removal, is to destroy the hair follicle by quickly heating only the hair bulb and bulge, without damaging the overlying epidermis and dermis. Skin pigmentation dictates which wavelengths of laser are “safe” so that melanin in the skin does not absorb the light and burn the skin. Various techniques such as “stamping” and “in-motion” are discussed and illustrated with video.





Online  
Links

If you're viewing this on your computer and online, just click these Links:

- [FREE PREVIEW OF THE COURSE](#)
- [ARTICLE on Training, Certifications and Licensing Issues](#)
- [CERTIFICATION HANDBOOK](#)
- [ONLINE REGISTRATION](#)

**DEPILACIÓN LÁSER - Disponible En Español!**  
Va a [www.LaserTraining.org](http://www.LaserTraining.org) para detalles



**Price: \$395 for ONE**  
**\$595 for TWO persons—PLUS allows you to**  
**add up to 5 additional people at only \$125 each!**  
**This is a great way to provide quality training at**  
**economical prices to your entire staff!**

#### **Laser and Light Based Hair Removal**

**The Course includes online access to the narrated and illustrated lectures (about 8+ hrs), a PDF course manual (8+hrs), a PDF copy of all the slides, and a Certificate of Laser Training. Online quizzes are at the end of most modules which you must pass with a 70% or greater score. If for some reason you don't pass a module we'll reset you for that at no charge. You'll listen to the online lectures but must also study each chapter of the book. It includes forms and checklists that are valuable in establishing this type of practice.**

**Approved for 16.1 Nursing CEU's**

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## LASER TATTOO REMOVAL

### IF YOU WANT JUST LASER TATTOO REMOVAL, THIS IS THE PROGRAM.

Learn how to safely perform laser tattoo removal, and how to select your clients and types of lasers based on their skin types and tattoo pigment color. This is a non-medical procedure that is easily learned. Make sure that you take a course like this **BEFORE** you invest in equipment.



### This course is actually included already in the Aesthetic Laser Procedures Course.

This program is actually the first 4 modules of the more comprehensive Aesthetic Laser & Light Based Procedures course, and the Tattoo module. If you buy that Aesthetics course then you already have this one. If you're just interested in laser tattoo removal then this program is more cost effective than the entire aesthetic laser procedures course. It consists of these modules:

1. **SKIN & HAIR BIOLOGY**—As it relates to laser & light based treatments
2. **FUNDAMENTALS OF LASER & IPL USE AND ENERGY CONCEPTS**
3. **TISSUE OPTICS AND LASER EFFECTS**
4. **LASER DEVICE SETTINGS**
5. **LASER HAZARDS & SAFETY**
6. **LASER TATTOO REMOVAL**

**\*Note**—various states have differing requirements for licensure of non physicians to perform these procedures, and some have none at all. It is up to the student to determine those requirements and the suitability of this course prior to purchase.



The Objective in Laser Tattoo removal, is to fragment the ink particles in the skin so that your body's lymphatic system will clear it over time. It can take anywhere from 4-10 sessions on typical tattoos. The focus of this course is solely on Q-Switched nano-second or pico-second lasers for tattoo removal. We discourage other methods such as IPL Tattoo Removal and that is not taught here.



If you're viewing this on your computer and online, just click these Links:

- [ARTICLE on Training, Certifications and Licensing Issues](#)
- [CERTIFICATION HANDBOOK](#)
- [ONLINE REGISTRATION](#)

Other methods of Tattoo Removal include Surgical Excisions, Modified Chemical Peels, or even aggressive Dermabrasion. Q-Switched Lasers are absolutely the definitive way to remove unwanted Tattoos, and this is what is discussed in this course.



**Price: \$395 for ONE**

**\$595 for TWO persons—PLUS allows you to add up to 5 additional people at only \$125 each! This is a great way to provide quality training at economical prices to your entire staff!**

#### **Laser Tattoo Removal**

**The Course includes online access to the narrated and illustrated lectures (about 8+ hrs), a pdf course manual (8+hrs) a pdf copy of all the slides, and a Certificate of Laser Training. Online quizzes are at the end of most modules which you must pass with a 70% or greater score. If for some reason you don't pass a module we'll reset you for that at no charge. You'll listen to the online lectures but must also study each chapter of the book. It includes forms and checklists that are valuable in establishing this type of practice.**

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## PHOTOBIO-MODULATION (PBM)

### Also known as Low Level Laser Therapy (LLLT), Laser Therapy or “Cold” Laser Therapy

This course is intended to familiarize one with the principles and mechanisms of LLLT. At the completion of the course you will be awarded a Certificate of Laser Training in Low Level Laser Therapy. This should be considered entry level training in this area, but allows you to get started safely and knowledgeably in this field. Importantly it will help clear up confusion regarding the commercial devices that may be available and make one a more informed buyer. Although basic cellular biology is discussed in this course, the basics are included only for reference and as background. This is a practical course, and is not an in-depth cellular biology course. *Some of the manufacturers will include this course with your purchase of their equipment.* Our nonprofit group has no financial ties to any of the companies in this field, and this course is not oriented toward any particular company's devices.



It consists of these modules:

1. **Introduction and Overview**  
Purpose of this Fundamentals course, differentiation between photobiomodulation and laser acupuncture, cautionary note about unsubstantiated claims for LLLT
2. **Fundamentals of PhotoBiology**  
Mechanisms of action and examples of common photobiological reactions .
3. **Photophysics** Conceptual physics, electromagnetic spectrum, types of lasers and wavelengths, non-laser light sources,
4. **Basics of Lasers, Light, and Energy Concepts**  
Dosimetry parameters including irradiance, radiant exposure, flux, wavelength penetration, pulsing and CW characteristics, delivery systems. Dose - radiant exposure vs total dose, parameters of spot size, power, pulse time and/or scan rates.
5. **Types of Laser/Light Tissue Interactions**  
Thermal including Selective Photothermolysis (aesthetic uses), Photoacoustic, Photodisassociation, Photochemistry (PDT), and PhotoBiomodulation (LLLT)

**\*Note**—various states have differing requirements for licensure of non physicians to perform LLLT procedures, and some have none at all. It is up to the student to determine those requirements and the suitability of this course prior to purchase.



If you're viewing this on your computer and online, just click these Links:

- [ARTICLE on Training, Certifications and Licensing Issues](#)

- [ONLINE REGISTRATION](#)

6. **Light Sources & Commercially Available Devices**  
Coherent vs. incoherent light sources and examples. Clarification of the confusion in nomenclature, methods, and labeling
7. **Laser Safety And Regulations**  
A.N.S.I. 136.3 Laser Safety Standards, differentiation of training and credentialing vs licensing, Laser Classification System, Eye Hazards, Other related Laser Hazards, A.N.S.I. based training requirements, Nominal Hazard Zones (NHZ) and Laser Treatment Controlled Areas (LTCA)
8. **LLLT Applications—PhotoBiomodulation (PBM)**  
veterinary, wound healing, chronic pain, arthritis, sports injuries, carpal tunnel syndrome, low thyroid, diabetes, neuronal toxicity, nerve regeneration, stroke treatment, skin rejuvenation, hair growth
9. **LLLT Applications—Laser “Acupuncture”**  
Aid to Stop Smoking, and Weight Loss
10. **Common PhotoBiological Reactions in LLLT**  
Mitochondrial Respiratory Chain, Nitrous Oxide formation from UV light, Cytochrome C Oxidase, Cell Signaling and Redox State, etc.
11. **Professional Associations and Recommended Reading**  
(attachment at end of course)

**Price: \$695 for one person.**

**\$995 for two persons—PLUS allows you to add up to 5 additional people at only \$125 each! This is a great way to provide quality training at economical prices to your entire staff!**

**PhotoBioModulation—also called Low Level Laser therapy**

**The Course includes online access to the narrated and illustrated lectures, a PDF copy of all the slides, and a Certificate of Laser Training. Online quizzes are at the end of most modules which you must pass with a 70% or greater score. If for some reason you don't pass a module we'll reset you for that at no charge. You'll listen to the online lectures and follow along with the printout of all the narration on the slides, taking notes as needed. Approved for 16.1 Nursing CEU's and Qualifies for Category II CME.**

**A CERTIFICATE OF LASER TRAINING in PMB from our nonprofit medical education group shows professionalism to your clients and enhances your credibility.**

## MEDICAL LASER SAFETY OFFICER (MLSO)

### **Every Hospital, Private office, or Aesthetic Practice is required to have an appointed LSO.**

**Laser Safety, as defined by the American National Standards Institute (ANSI) is separate and distinct from patient and treatment safety, which is an important but unrelated topic. Meet the regulatory requirements for having a trained Laser Safety Officer appointed at every facility that uses medical or aesthetic lasers. In additional several states require that an LSO be listed on administrative forms filed with the state, and must have proof of formal LSO training. This meets those training requirements.**



### **Laser Safety Officers develop, administer and enforce the written Laser Safety Program that is required for all facilities-Aesthetic/Medical/Dental.**

**A Laser Safety Officer is an individual appointed by the facility administration or business owner to manage and administer a Laser Safety Program. It is the major requirement of the ANSI Z 136.3 requirements for the Safe Use of Laser In Health Care Facilities (including aesthetics & private practices).**

**This person is a manager and does not necessarily run the laser equipment or do treatments, although they certainly may do so. They ensure that a safe “Laser Environment” is maintained. Patient treatment safety is a separate issue.**

**The program consists of the following modules:**

- 1. Laser Biophysics**
- 2. Laser Energy Concepts**
- 3. Laser Effects on Tissue**
- 4. Laser Hazards & Safety**
- 5. Laser Incidents, Accidents and Complications**
- 6. How to Set Up and Administer a Laser Safety Program**
- 7. ANSI Z136.3 Safety Standards for Health Care Facilities**
- 8. Medical Laser Safety Audits**

**ALSO—See our “ADVANCED” LSO Seminar held in Columbus Ohio for live firing of multiple types of lasers and management of fires, fiber breakage, etc.. Must show evidence of LSO training and sign a disclaimer to attend.**



If you're viewing this on your computer and online, just click these Links:

- [ARTICLE on What You Need to Know About Your Laser Safety Program](#)
- [CERTIFICATION HANDBOOK](#)
- [ONLINE REGISTRATION](#)

**Price: \$495 for ONE  
\$795 for TWO persons—PLUS  
allows you to add up to 5 additional  
people at only \$125 each! This is a  
great way to provide quality training  
at economical prices to your entire  
staff!**



#### **Medical Laser Safety Officer**

**The Course includes online access to the narrated and illustrated lectures, a pdf course manual, a PDF copy of all the slides, and a Certificate of Laser Training. Online quizzes are at the end of most modules which you must pass with a 70% or greater score. If for some reason you don't pass a module we'll reset you for that at no charge. You'll listen to the online lectures but must also study each chapter of the book.**

**Approved for 16.1 Nursing CEU's and Qualifies for Category II CME.**

#### **MEDICAL LASER SAFETY OFFICER CERTIFICATION:**

**Accredited Training Certificates are different than a Certification as a Medical Laser Safety Officer. There are currently (2024) no requirements that one MUST be Certified as an MLSO, but the 2018 ANSI 136.3 Standards do recommend such Certification. This course will meet the training requirements in order to take the CLSO/M Certification exam from the National Council on Laser Certification (NCLC). You may make separate application and take this exam at a location convenient to you. See [www.LaserCertification.org](http://www.LaserCertification.org) for details. During our live 2 day LSO seminars we administer this exam at the end of the seminar for those wishing to take it.**

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## MEDICAL LASER ACCIDENTS, INCIDENTS & COMPLICATIONS

- **DEATH**
- **SCARRING**
- **SEVERED SPINAL CORDS**
- **PERFORATED AORTAS**
- **CEREBRAL AIR EMBOLISM**
- **FIRES**
- **PIGMENTARY CHANGES ON SKIN**
- **IMPROPER SELECTION OF WAVELENGTHS PER SKIN TYPE & RESULTING INJURIES**
- **INJURIES DUE TO AIMING BEAM MISALIGNMENTS**
- **DELAYED BOWEL PERFORATION**
- **SKIN BURNS & BLISTERS**
- **FACIAL BURNS**
- **AIRWAY FIRES**
- **SURGICAL DRAPE FIRES**
- **PHYSICIAN EYE INJURIES**
- **PHYSICIAN INJURIES FROM BROKEN FIBERS**
- **ENDOSCOPE DAMAGE**
- **IPL EYE INJURIES**
- **COLOBOMAS (SPLIT IRIS)**
- **LOW POWER DENSITY BURNS AND SCARRING**
- **ADMINISTRATIVE LIABILITY from improperly structured laser safety programs.**



**..... AND MORE! .....**

This presentation comes from over 45 years of experience with medical lasers throughout the U.S. and other countries. No pictures are included, but it is a summary of how actual accidents and incidents have occurred with laser procedures. Most of this is with anonymous reporting, but NONE of it is fabricated. It come from my (G.T. Absten) experiences as a medical laser expert in litigation, usually representing the defendants, and also comes from word of mouth stories I've heard from working in hospitals and offices all over the U.S.. Most of those places don't want their names revealed, but they don't mind sharing the experience so that others can learn from this too. It lists the incident, probable causes, contributing factors and suggestions to prevent it's occurrence in the future.

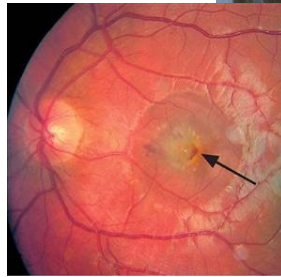
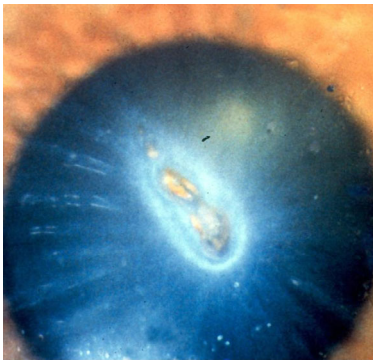


Online Links

If you're viewing this on your computer and online, just click these Links:

- [ARTICLE on What You Need to Know About Your Laser Safety Program](#)

Price: \$49 for ONE



The FAA has a "crash and burn" program to inform pilots of serious accidents of other aircraft and pilots so they can learn from those mistakes.. This is an equivalent "Crash & Burn" program for laser accidents. You can learn what has happened to others, and hopefully avoid that for yourself and your patients.

## **ANSI Z 136.3 Laser Standards**

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### **A “Cliff Notes” Summary of the ANSI Standards**

All Facilities that use Lasers, and all Laser Safety Officers will need to obtain their own copy of these standards for the Safe Use of Lasers in Health Care Facilities. The problem is, that unless you're a “laser nerd” like us, you can read these standards several times and still be confused about what they say. That's what this online program does for you. It's not a reproduction of the actual standards, but it does walk you through them section by section to give you a common sense understanding of what they say. Coupled with the actual standards that you'll buy, this gives you the best of both worlds in understanding your options in implementing these standards.



### **“Common Sense Language”**

This narrated Computer Based Learning (CBL) program is approximately 126 slides in length and will take you about 2 hours to complete, depending on how quickly you advance through the slides. Like our other CBL programs it includes a PDF printout of all the slides in the program for you to keep. One of the problems for many people reading ANSI standards for the first time or two, is that you can read them but still not fully understand what they're trying to say. This program does a lot of interpreting for you and discusses some of your options as ANSI lays them out. Using this online narrated program along with your required copy of the Standards will bring you up to speed much faster to understand the requirements and options of ANSI.

### **Why do I need to bother with them at all?**

The ANSI standards by themselves are not a law. However, various State and Federal agencies do require that you operate by these standards. OSHA (Occupational Safety & Health Administration) can write large fines (such as \$10,000) to employers who fail to abide by ANSI standards, and various States enforce them as well. Some States actually require formal documented training of the Laser Safety Officer and registration of the lasers with the State—it varies all over the country. In any event all facilities that use lasers are required to have a copy of ANSI standards and use them as guidance in their Laser Safety Program.

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**This Online Overview is NOT a copy of the Standards—you'll still need to buy them.**

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**Who needs a copy of the 136.3 Standards?**

Every facility (hospital, clinic, medical or dental office, MediSpa, veterinary practice, Low Level Laser Therapy clinic) that uses a laser must have an appointed Laser Safety Officer, and that program needs at least one copy of the ANSI Standards. You don't need multiple copies for different users—just one to use as guidance in your Laser Safety program. You don't use this as a day-to-day manual for routine laser use, just as a guidance document to establish and manage your required Laser Safety Program.

**Where can I buy the Standards themselves?**

You can buy a copy from us, or you can buy them from the Laser Institute of America. The standards are priced at \$159 plus shipping (subject to change).

NOTE: As new Standards are approved, they may not actually be released until quite some time later. When you order either the ANSI Standards, or this online Overview of these Standards, you'll automatically receive the latest version of the Standards publicly available at the time of your order.

**Price:** \$95 for the Online narrated "Cliff Notes" summary  
(These are not the standards themselves—you'll need to buy them separately)

**Also see our "Medical Laser Safety Officer Course" in this catalog. Available as an Online Course, or Two Day Seminar.**

This ANSI "Cliff Notes" summary course:  
Approved for 2.4 Nursing CEU's.

**A MUST FOR ALL LSO'S, PRACTICE MANAGERS,  
AND BUSINESS OWNERS.**

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## **SURGICAL LASER TECHS—SAFETY AND OPERATION**

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### **The next step up from a Basic Laser Safety Inservice for Laser Personnel.**

For Surgical Staff working directly with, or around laser Systems, or in Laser Cases. Also used by Physician Staff for a more in-depth basic laser science and safety training. Approximately 4 hours of Basic Surgical Laser Science and Safety.



### **Basic Laser Science and Safety Training for Technicians operating the equipment, and Team Members working Laser Cases.**

Laser Operators must of course augment this with specific hands-on training on the lasers they operate. The program is broken down into three sections:

- 1) Laser and Energy Concepts (basic biophysicis)
- 2) Laser / Tissue Interactions
- 3) Laser Safety, including both practical safety and administrative concerns



***Also ask us about our In-House programs where we teach hands-on with your own lasers. Lectures in***

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Online  
Links

**If you're viewing this on your computer and online, just click these Links:**

- [\*\*ARTICLE on What You Need to Know About Your Laser Safety Program\*\*](#)
- [\*\*FAQ: Which training should I choose for my staff?\*\*](#)
- [\*\*ONLINE REGISTRATION\*\*](#)



Primarily used for medical/surgical laser applications for nurses and surgical techs running lasers for physicians in an operative field.

Although this is not oriented toward aesthetic laser use, those who have had proper aesthetic laser training sometimes use this as an affordable “refresher” to meet their State requirements for ongoing training for licensing purposes.

**Price:** \$195 for ONE  
\$295 for TWO people, PLUS the option to enroll an additional 5 people at \$125 each.

### **Laser Techs—Safety and Operation**

The Course includes online access to the narrated and illustrated lectures, a PDF course manual, a PDF copy of all the slides, and a Certificate of Laser Training. **Online quizzes are at the end of most modules which you must pass with a 70% or greater score. If for some reason you don't pass a module we'll reset you for that at no charge.**

Approved for 5.2 Nursing CEU's.

**NOTE—** We offer this same course as a live seminar which is the first day of our two day LSO course. \$395. Discounts available.

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## SURGICAL LASER AIRWAY SAFETY

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### **ENDOTRACHEAL TUBE FIRES ARE A MAJOR RISK OF AIRWAY LASER USE.**

This 30 minute presentation (plus review and test) on management of risks of airway fires from lasers should really be a mandatory viewing of ALL Anesthesiology departments, plus ENT, Pulmonary medicine and other specialties involved in laser use in the airway.



**This should be MANDATORY viewing for all personnel involved in Laser Airway Cases.**

Airway fires induced by laser procedures are easily avoided if proper procedures are used, but are extremely LIKELY if they are not. Considering the high risk to patients, and consequent liabilities to the facility in the event of a fire, it is prudent for ALL PERSONNEL involved with laser airway cases to review this presentation. It discusses Micro-laryngoscopies, plus rigid and flexible bronchoscopies, with associated safe laser practices and laser resistant tube use. The presentation includes videos of ex-vivo simulations of various ET Tube fires. ANSI Laser Airway Safety requirements are discussed in some detail.

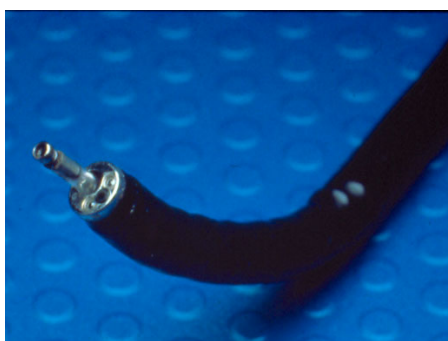
This program is utilized by The Ohio State University Medical Center for training of staff in the Anesthesia and ENT departments, among other Universities and Medical Centers.





If you're viewing this on your computer.  
Just click these Links:

- [ARTICLE on What You Need to Know About Your Laser Safety Program](#)
- [ONLINE REGISTRATION](#)



**Price:** \$125 for ONE person, or  
\$795 for a facility for up to 20 certificates.  
(This can cover training for an entire department and  
there is no time limit on when you have to use them)

### **SURGICAL LASER AIRWAY SAFETY**

The Course includes online access to the narrated and illustrated lectures, a PDF copy of all the slides, and a Certificate of Laser Training. An online quiz is given at the end which you must pass with a 70% or greater score. If for some reason you don't pass we'll reset you at no charge.

**Approved for 1.0 Nursing CEU's and can Qualify for Category II CME.**

#### **Note for those taking the LSO 2 Day Seminars:**

This Surgical Laser Airway Safety course will be provided to you as a powerpoint show on a memory stick that you may use for training of your own physicians and staff on an unlimited basis.

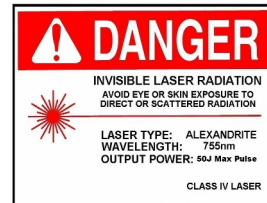
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## STAFF BASIC LASER SAFETY INSERVICE

### All Perioperative Staff are required to have Laser Safety Training. This is it.

Short 20-30 minute inservice as required by ANSI 136.3 for all PeriOperative personnel that may have occasion to come into a laser room. This is the basic Laser Safety Inservice for personnel that might come into a laser room, but are not working directly with lasers. It discusses the eye and skin burn hazards of lasers, how to read the wavelength listings on the danger signs and to match them with actual protective eyewear.

Covers the ANSI required safety training for all personnel working around laser installations. Documentation of this training is a requirement of ANSI. Choose this shorter program for general perioperative staff. Chose the longer 4 hour "Laser Techs" course for staff that are working directly with lasers or scrubbing in on laser cases.



**THIS SHORT PRESENTATION DOCUMENTS THE LASER SAFETY TRAINING FOR YOUR STAFF AS REQUIRED BY ANSI STANDARDS.**



**Online  
Links**

**If you're viewing this on your computer and online, just click these Links:**

- [ARTICLE on What You Need to Know About Your Laser Safety Program](#)
- [FAQ: Which training should I choose for my staff?](#)
- [FAQ: What about hands-on training if we take the online courses?](#)
- [ONLINE REGISTRATION](#)



**Price:** \$25 for ONE — or \$400 for a package of 20. There is no time limit on when you have to use your 20 spots.

Electronic Copies of the accredited certificate are presented at the end, and may be made automatically available to the supervisor. / director of those departments for documentation.

#### Surgical Laser Safety Inservice—Short Safety Inservice

The Course includes online access to the narrated and illustrated lectures, a PDF copy of all the slides, and a Certificate of Laser Training. An online quiz is given at the end which you must pass with a 70% or greater score. If for some reason you don't pass we'll reset you at no charge.

Approved for 1.0 Nursing CEU's and Qualifies for Category II CME. (also ask us about our In-House programs where we teach hands-on with your own lasers).

#### **Note for those taking the LSO 2 Day Seminars:**

This basic laser safety inservice will be provided to you as a powerpoint show on a memory stick that you may use for training of your own staff on an unlimited basis.

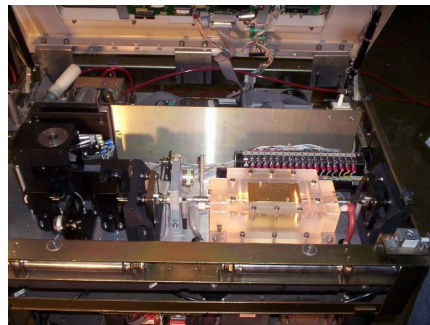
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## LASER MAINTENANCE & REPAIR

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### **LASER MAINTENANCE COSTS ARE A MAJOR COST OF OPERATION, AND CAN BE UNDERTAKEN BY THE FACILITY.**

Maintain your own lasers and save THOUSANDS of dollars in maintenance. Covers basic Periodic Maintenance and Front Line Repairs. Prepares you to take over your own maintenance, or manage your service contracts at significant financial savings.



These are the lectures from our week long repair course, and full credit for this online program will be applied to those attending our actual week long repair seminar within one year from taking the online program.

The course includes affiliation with a network of independent laser service providers that can provide information on service and parts on various lasers.

Manufacturers are required by federal law to provide the Laser Service Manuals at the "cost of reproduction", and we discuss these laws in the course.

Biomedical Engineers have the best background for these courses, but we've also had many with no formal technical training, but were mechanically and electrically inclined. This is NOT an "Engineering and design" course and one does not need an extensive background in electronics nor optics. It IS a "Laser Mechanics" course that teaches people how to repair broken lasers with stock off the shelf parts and normal repair procedures.



**SAVE MONEY! FIX YOUR OWN LASERS!**

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**If you're viewing this on your computer. Just click these Links:**

- [INFO on the Laser Repair course](#)
- [CERTIFICATION HANDBOOK](#)
- [ONLINE REGISTRATION](#)



**Price:** \$1495 for ONE person for the online lectures.

Fee is applied to the actual workshop course fee for the week long program if registered within one year of the home-study course.

**LASER MAINTENANCE AND REPAIR—Online Lectures**

The Course includes online access to the narrated and illustrated lectures, a PDF course manual, a PDF copy of all the slides, and a Certificate of Laser Training. **Online quizzes are at the end of most modules which you must pass with a 70% or greater score. If for some reason you don't pass a module we'll reset you for that at no charge.**

Attending the actual week long course is the best way to learn laser repair, but this course can make you more knowledgeable (and a better buyer of service) in the interim.

Approved for 16 Nursing CEU'. Also qualifies for AAMI BMET credits.

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## **LASER RECURRENCE TRAINING**

Physicians, Dentists, Laser Operators, Safety Officers

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**ANSI Z136.3 Laser Safety Standards** require "recurrency" training of key laser personnel at least once every five years - or more often if your facility decides. At the least that would include Physician and Dentist users, Laser Operators, and Medical Laser Safety Officers. This program serves as a brief refresher course to meet that requirement, but also may include a review of the facilities Laser Safety Policies, and a hands-on skill validation session at your option. You'll be able to download and save or print the pdf copy of this program from the link in the online course.

### LASER RECURRENCE TRAINING

This is for the 5-year Recurrency training recommendation in ANSI Z136.3 Laser Safety Standards intended for laser techs/operators, physician and dental users and safety officers. These are all abbreviated summaries of the topics as a refresher. This is not intended as initial training which includes more expanded discussions.

#### **Read and advance through the slides at your own pace.**

There is no verbal narration of these slides.

**You will have a quiz at the end so don't rush, and you can print these slides to review**

#### **TOPICS COVERED IN THIS REVIEW:**

1. Review of the overall Laser Safety Program structure & organization
2. Review Laser Fundamentals and Energy Concepts
3. Review types of Laser-Tissue Interactions
4. Review Laser Safety Practices, and Training & Recurrency Requirements
5. Summary & Further Resources
6. Obtain & review a copy your own Laser Safety Policies
7. Optionally attend a hands-on skills validation session on the lasers

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Some U.S. States also require annual recurrency training for laser operators. This short program is 1.0 CE hours. Check your state for requirements, and if more hours are required see our other online courses.

**THIS IS NOT A PROGRAM FOR SPECIFIC CLINICAL USES OF THE LASER.**

It is a review of Medical Laser Safety recommendations as defined by ANSI standards.

**If you need specific clinical “refreshers” on how to perform laser procedures, we have the following to help you with this process:**

- Any Medical/Surgical/Dental Specialty – we can arrange in-house training at your facility with appropriate Physician/Dental faculty.
- Aesthetic laser use – we can provide similar in-house training with appropriate faculty – or come to one of our 3 day seminars.
- ONLINE clinical courses in:
  - Aesthetic Laser & Light Based Procedures (includes hair & tattoos)
  - Laser Hair Removal
  - Laser Tattoo Removal
  - Laser Airway Safety Procedures
- ONLINE courses for:
  - Physician Basic Laser Science & Safety
  - Medical Laser Safety Officers
  - Surgical Laser Techs and Operators
  - Basic Laser Safety Inservice for Staff
  - Low Level Laser Therapy (Photobiomodulation)

**Price:** \$125 each.

Or \$795 for up to 20 staff members  
no time limit on when you have to use them.

This Laser Recurrency Course is Approved for 1.0 Nursing CEU's.

**You MUST provide recurrency training for key laser personnel, and this is about the easiest and most affordable method available. Your other options are seminars, laser meetings, and clinical laser workshops.**

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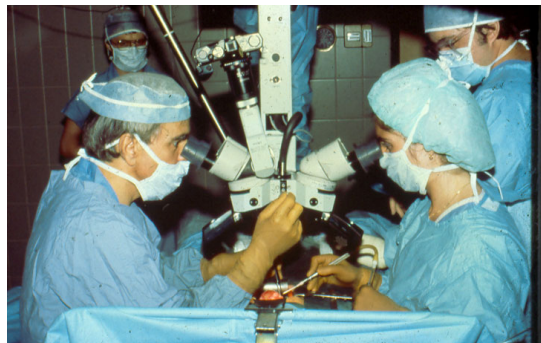
## PHYSICIAN: BASIC LASER SCIENCE AND SAFETY

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### The First Step in meeting credentialing requirements for Laser Use for Residents and Attending Physicians.



Online / Home-Study Course designed for Physicians seeking basic laser science and safety for credentialing purposes, and for staff working directly with and around lasers. Approx 1hr 45 minutes to cover the primary laser and energy concepts, differentiate types of lasers, and present important safety concepts. This is the next step up from the Basic Surgical Laser Safety Inservice. It is directed toward physicians it is intended to be augmented with more complete and specific clinical training in their specialty area, followed by hands-on laser work and preceptorship of cases, in order to gain Laser Privileges at a hospital. Requirements for gaining Laser use privileges will vary hospital to hospital, so check with yours. This program is utilized by The Ohio State University Medical Center as the first training step in the credentialing of their Residents and Attending Physicians.



**PERFECT FOR PHYSICIAN STAFF  
AND RESIDENT TRAINING**

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**If you're viewing this on your computer and online, just click these Links:**

- [ARTICLE on What You Need to Know About Your Laser Safety Program](#)
- [FAQ: Which training should I choose for my staff?](#)
- [ONLINE REGISTRATION](#)



**Price:** \$195 for ONE  
\$295 for TWO people - PLUS the option to enroll an additional 5 people at \$125 each.  
(that's a package of 7 for only \$920—enroll your department)

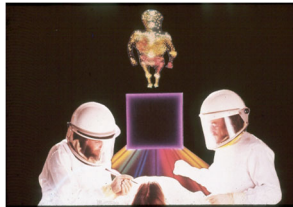
**Physician Basic Laser Science and Safety**

The Course includes online access to the narrated and illustrated lectures, a pdf copy of all the slides, and a Certificate of Laser Training. An online quiz is given at the end which you must pass with a 70% or greater score. If for some reason you don't pass we'll reset you at no charge. (Course credits allots 15 minutes to the post test)

Approved for 2.4 Nursing CEU's and can Qualify for Category II CME.  
(We can also come In-House where we can teach hands-on physician credentialing programs with your own lasers utilizing physician faculty).

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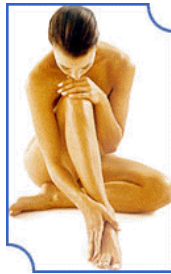
**FREE LASER RESOURCES & MATERIALS—Click on Photos if online**



**Laser Medicine & Surgery Manual**  
You have to register, but its free. Includes you on the periodic E-newsletter.

All the laser basics of energy concepts, tissue effects, and generic applications, plus safety.

Click on the photo to open



**Introductory PowerPoint on Laser Aesthetics**  
Get the “gist” of laser use in aesthetics. Includes Laser hair removal.

**NO LONGER AVAILABLE.**  
See the Free Preview Below



**PREVIEW—Aesthetic Laser Procedures Course**  
The complete first module introduction to this online comprehensive program.

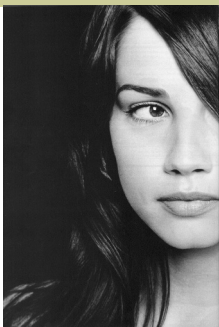
View the narrated PowerPoint by clicking on the photo, and then register as a new user—its free.



**Licensing, Certifications, Training Certificates—What are they all about?**  
Look at a discussion of the differences in these topics with a referral to Boston Medtech Advisors to answer specific State licensing questions.

Click on the photo to open the file.





**Laser Safety Policies in an Office Practice.**

Sample generic policies.

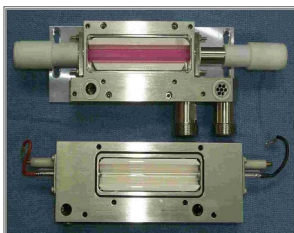
Click on the photo to open the word document



**Laser Safety Policies in a Hospital Setting**

Sample generic policies

Click on the photo to open the word document.



**Introduction to Servicing Medical Lasers**

Click on the photo at left for a free narrated PowerPoint presentation on servicing lasers.

(Register as a new user—its free)

[Click HERE for a 7 minute video on the repair course.](#)

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[Laser Companies & Suppliers](#) — listings of virtually every company

[What are my Options for General Surgical Staff Training?](#)

Click for a pdf brochure on how to keep your staff laser trained.

[Laser Certification Information](#)—www.LaserCertification.org

[SUBSCRIBE—to our free “Laser Straight-Shooter” E-Newsletter.](#)

[FREE Laser Warning Signs](#)—just fill in the blanks and print them.

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## REFUND POLICY

·Online Courses are non-refundable once the authorized individual has logged in to start the course, as indicated by the website servers, and/or the course materials have been electronically sent to the individual. If you've registered for and paid for a course by credit card, and then contact us to request a refund prior to starting the course and before materials have been transmitted or accessed, we'll apply a full refund less any service fees charged by the credit card company.

Substitutions of enrolled students may be made as long as that person has not already accessed the program to download materials, as shown in the management software of the program.

AV materials for Online Courses (books, manuals, file transfers etc) are non-refundable once they have been downloaded or electronically transmitted to the participant due to the easy nature of copying materials. Participants should be aware however that a full credit for purchased Online Courses is frequently applied to their registration fee for upgrading to an actual training seminar. This would be posted with the course information.

See our [ONLINE REFUND POLICY](#) regarding our other in-person seminars and In-House training programs,.



**Professional Medical Education Association, Inc.**  
*not-for-profit continuing education, est. 1978*

Online Laser Training, Seminars & Onsite Training

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3142 Broadway, Ste 200-201  
Grove City, OH 43123

Phone: 01-800-342-2704  
Fax: 305-946-0232  
E-mail: [info@LaserTraining.org](mailto:info@LaserTraining.org)