

International Academy of Cosmetic Laser Surgery

Course Title

Aesthetic Lasers and Intense Pulsed Light

Physics, Applications & Safety

Developed by Linda Gulla LE, Master, Cosmetic Laser Legal Expert

Course Description

The course material covers many aspects of laser and IPL and is unlike any other laser course. The material includes the physics of laser and IPL and the difference of each, as well as applications and indications in dermatology when managing skin disease and in cancer management. The material discusses the physiology of the skin with emphases on genetics and ethnicity when determining laser parameters. Regenerative medicine is covered with ablative laser applications and advanced modalities for optimal clinical outcomes. The course covers intense pulsed light and discusses IPL physics as well as indications in dermatology when managing skin conditions.

The study concludes with laser and IPL safety that covers ANSI Standards which are recognized in the laser industry as the National Consensus Standard in Laser Safety. ANSI standards are recognized by OSHA and can become law through "Incorporation by Reference". The material covers both OSHA General Clause 1910 as well as OSHA State Approved Plans for implementing laser safety within the private sector. The course was written by a Cosmetic Laser Legal Expert who works with malpractice attorneys and covers "best practices" Standards of Care. The material discusses Tort law and reveals the legal elements to malpractice litigation.

This material is ideal for physicians or individuals who currently have a laser practice or for those who are contemplating or pursuing a laser practice, which are required by law to appoint a Medical Laser Safety Officer with operation of Class IIIB or Class IV laser system. The course prepares those who wish to pursue MLSO board certification with the Board of Laser Safety as well as trains practitioners in the national standards of laser safety requirements and legal regulations. This material offers medical practitioners, nurses, and estheticians the opportunity to reduce liability as well as meet the demand of practice owners who are looking for trained and qualified laser technicians.

Course Objectives

- Identify differences in laser and IPL modalities and applications.
- Skillful with patient selection and protocols.
- Proficient in ethnic assessment when determining laser and IPL parameters.
- Competent in determining indications when managing aging and dermatological conditions.
- Equipped to improve patient retention through development of synergistic applications.
- Practice clinically based regeneration therapies with ablative laser and cosmetic procedures.
- Reduce liability by implementing and adhering to Standard of Care "best practices"
- Implement OSHA laser safety regulations as required by state and federal law.
- Apply ANSI Z136.3 standards in a cosmetic laser practice.
- Protect both the practitioner as well as the patient from laser hazards.
- Implement Standard Operating Procedures in relation to ANSI laser safety standards.
- Qualified to implement laser safety standards and fulfill the position of Medical Laser Safety Officer as required by law.
- Eligible to sit for the Board of Laser Safety exam and become credentialed as a Board Certified Medical Laser Safety Officer.

Course Outcomes

Medical providers and practitioners will be proficient in mastering practicing applications with cosmetic lasers and intense pulsed light applications specifically when managing dermatological conditions and extrinsic aging achieving excellent patient outcomes. Physicians and practice owners will be equipped to appoint a qualified Medical Laser Safety Officer who will have the knowledge and tools necessary to reduce laser hazards by implementing a laser safety plan based on ANSI standards and OSHA regulations as required by law. Practice owners will be able to provide “best practices” Standard of Care policies which will reduce liability under tort law. Both physicians and practitioners will have credence in facilitating a cosmetic laser practice meeting the highest practicing and safety standards in the industry.

NOTE: Completion of this course meets the prerequisite training and eligibility requirement of the Board of Laser Safety. The material qualifies the student to sit for the BLS Medical Laser Safety Officer exam, and to be credentialed as a Board Certified Medical laser Safety Officer. The Board of Laser Safety offers the highest credentialing and recognition in laser safety and in the cosmetic laser field.

<https://www.lasersafety.org/become-certified/eligibility>

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***This is a medical level training for all levels of practice.**

Course Outline

Section 1

Part I

Visible Light Spectrum

Part II

Laser Physics

Part III

Types of Lasers

Laser Applications

Part IV

Postoperative

Tissue Regeneration

Part V

Preoperative Considerations

Ethnic Assessment

Part VI

Lasers in Dermatology & Medicine

Part VII

Laser Hair Reduction

Part VIII

Laser Tattoo Removal

Section 2

Part IX

Laser Safety

Medical Laser Safety Officer

Section 3

Part X

Intense Pulse Light

Part XI

Intense Pulsed Light Physics

Part XII

Inflammation, Melanogenesis

Ethnic Assessment

Part XIII

Intense Pulsed Light

Managing Skin Conditions

XIV

IPL Safety

Litigation Case Study*

Though not required, the course offers a corresponding book, student review and assessment key.