

The Laser Training Institute™ of Professional Medical Education Association

Laser Maintenance & Repair Class

What to do and What to know before coming to Class. v1001

More detailed course information on the website at www.lasertraining.org/laser_repair.htm

**For arriving Students: Call me anytime on my cell: 305.849.0285
Gregory Absten, Executive Director**

- **FLIGHTS** – you’ll book your own. Fly into Port Columbus International (CMH). It’s about 5 minutes to the hotel. There are shuttles available at the airport for a fee, or rent a car for the week. Ask at baggage level. For international students wishing some local assistance upon arrival – just call or email us in advance.
- **HOTEL** – Drury Inn Convention Center Downtown Columbus Ohio.
<https://www.druryhotels.com/PropertyOverview.aspx?Property=0107&FromBooking=True>
This is included in your course fee and we’ll make the reservation and pay for the room (room & tax). They do have garage parking there if you rent a car (you pay the parking fee – about \$12/day). Breakfast is included with the hotel, and they have an evening happy hour with free drinks & snacks. You should have a welcome letter waiting for you at the front desk when you check in explaining where to meet in the morning and about the week.
- **MEET** – in the hotel lobby at 8am the first day. We’ll car pool to the classroom in Grove City the first day to show you the way. The rest of the week most students share rides with each other. It’s about 15 minutes to class. If you don’t have a car you can ride with one of us back and forth each day. Our Office/Class is at 3136 Broadway, Suite 101, Grove City OH 43123 in the Broadway Business Center. This is on Rt3 (3C Highway, or Broadway) just South of the I-270 interchange on the South side of Columbus.
- **DRESS** – Casual for the course. We will tax your intellect, but don’t really care how you dress as long as you’re “decent” (whatever that is).
- **GROUP DINNER** – We’ll have one group dinner early in the course. Details will be in your welcome letter.
- **ADVANCE ONLINE WORK:** You have the option of using this one of two ways:
 - (1) You can take it yourself prior to attending the course to hear all of the lecture material. We’ll be giving these lectures live the first two days of class anyway so it’s not necessary to do them beforehand if you don’t want. Its several hours of lecture.
 - (2) Your department can instead use the online portions and project the presentations for the entire department, breaking them up into shorter modules over a few days or weeks. Once you begin the program it must be completed within 30 days because it will expire, and it may only be viewed one time through its completion.
 - We’ll give you a username and passcode to get started once we receive the P.O. or payment.
- **COURSE MANUALS (2)** – You’ll receive electronic copies of the Repair Course Manual (not service manuals) which you can start browsing once you receive it. It will be sent via a “YouSendIt” email for an FTP transfer. You generally have 7-14 days to download the manual from the “YouSendIt” link before it expires, so do it right away. The other manual is our “Lasers in Medicine & Surgery” book which is used for the Laser Safety Officer and physician training. You can download a copy from our website. Read the first couple of chapters on Laser & Energy Concepts, and the Laser Safety Sections. You have to register online to get the link, but it’s free. Go to <http://www.lasertraining.org/lims.htm> and click the registration link.
- **LASER CERTIFICATION PREPARATION** – We’ll have a review at the end of the week (cram session) that is specific to the exam, but if you plan on taking it you should download a copy of the specific Certification review for the Repair Technician. It’s available at www.LaserCertification.org on the “Study Materials” page, under the CLRT (Certified Laser Repair Technician) review. This is the definitive way to review specifically for this examination. Start looking at it right away, but many of the items won’t make any sense until you’re part way through class or have read the books.

- **FEES** – Payment must be received prior to attending the course and confirmation of a hotel room. You won't have a hotel room when you try to check-in if the fee has not been received. We'll transmit the course materials and authorize you for the online lectures when we first receive the P.O. or payment, whichever happens first.

The COURSE is an 8 day program, with the 8th day set aside for testing in the morning. The first couple of days are lecture, and the last day is the Certification Exam. This is based on about 10 students or more. On some of our smaller courses we're able to finish a day or two earlier because we don't have as many people for the hands-on sessions. If so we'll discuss it the first day of the course. We frequently offer the exam late afternoon/evening on day 7 instead of you coming in on day 8 just for the exam. If for some reason you don't pass the exam on your first try, you then have the option of coming in the next morning (the time it is regularly scheduled) and retaking it.

Suggestions from past attendees to be best prepared:

- Find out who your Laser Safety Officer (LSO) is. Every facility is required to have one. If there is none you might explore the possibility of either you or someone in your department being appointed by the facility administration as the LSO.
- Contact the LSO and the Department Heads at your facility and ask if they use any lasers in their departments, and ask for their input about them.
- Physically go to each laser and see its size and accessories, how its stored, safety glasses, electrical and/or water connections, etc.
- Write down all information you find on the lasers. Create an inventory list to bring to class (Including Serial number & Date of Mfg if possible – tag is on back or side of laser).
- If you have the service manuals (or can get them) bring them to class if you can, although this is not required. Alternatively scan them as pdf files and bring to class for reference. You will need service manuals for your lasers when you get back to your facility. You can buy them from the manufacturer. Federal law requires the manufacturer to give (sell – usually for \$800+ per manual) you complete service manuals upon request. If you have trouble with the manufacturer in this regard we'll go over the procedure in class about contacting the FDA and forcing the issue.
- Google the models and brands of the lasers. You can often find out how the lasers were intended to be used, which technology they use (Ho:Yag, CO2, Nd:Yag, etc) and other information specific to the lasers.
- Review the materials provided to you in advance of the class. It will be important to memorize the wavelengths of the various types of lasers, so you should start on that before class.

The Laser Training Institute™

www.LaserTraining.org

Columbus, Ohio

Local Entertainment/Events:

There are more restaurants/bars, and more to do here within walking distance of the Drury Hotel than you could possibly think of doing in a week. The Laser class frequently meets after class in the lobby for the free cocktail hour and then heads out to area restaurants/bars. We have one group dinner during the week and that will be listed in your welcome letter that you'll receive upon check-in. Distances listed here are from the Drury Convention Center Hotel.

The Ohio Theater: http://www.capa.com/columbus/venues/ohio_about.php

A 1928 movie palace with a lush, Spanish-Baroque flair. Plays, Musicals, Concerts & Movies.
(walkable - 5 blocks. Across the street (south) of the State House)

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The Palace Theater: http://www.capa.com/columbus/venues/palace_about.php

Modeled after France's Palais de Versailles, the Palace has drawn the top names in entertainment since it opened in 1926. (walkable – 4 blocks)

The Southern Theater: http://www.capa.com/columbus/venues/southern_about.php

Originally built in 1896, it was completely renovated and reopened in September 1998. The Southern is the oldest surviving theatre in central Ohio. (Short cab ride. 9/10 of a mile South on High Street.) In the Westin Great Southern Hotel.

Columbus Zoo and Aquarium: <http://www.columbuszoo.org/default.aspx>

About ½ hr North of Downtown – 15 miles. May be a bit cold in winter, but there are plenty of inside exhibits including the aquarium & manatees. 9am-5pm only in winter. One of the best Zoo's in the country. In the summer they operate adjacent water parks.

The Drury Hotel Staff's Pick of Local Restaurant's & Fun Places:

<https://www.druryhotels.com/PropertyPicks.aspx?property=0107>

Schottenstein Center: <http://www.ticketmaster.com/Schottenstein-Center-tickets-Columbus/venue/41424>

. Various sports, concerts & events. OSU Campus area. Cab ride. 4 miles.

Greater Columbus Convention Center: <http://www.columbusconventions.com/>

Around the corner from the Drury Hotel. (walkable - adjacent)

Click for the Calendar of Events: <http://www.columbusconventions.com/calendarofevents.php>

Nationwide Arena: http://www.ticketmaster.com/venue/41498?tm_link=tm_music_c1

3 Blocks over (West) from the Drury hotel. (walkable)

Chiller Ice Rink: <http://www.thechiller.com/>

Next to the Nationwide Arena, about 3 blocks from the Drury. (walkable)

Arena District Restaurants: <http://www.arenadistrict.com/where-to-eat/> Some with live entertainment.

Due West from the Drury – across High Street. (Turn right out of Drury) (walkable – 4 Blks)

Arena Grand Movie Theater: <http://www.arenagrand.com/>

Due West from the Drury – across High Street. (Turn right out of Drury). (walkable – 4 Blks)

Includes a Bistro & Bar

Short North Restaurants: <http://www.theshortnorth.com/Restaurants.htm>

4 Blocks from the Drury – North onto High Street. Numerous bars & restaurants. (walkable)

Elevator Brewery & Draught House: <http://www.elevatorbrewing.com/> (walkable – 2 blks)

South on High Street, on West side of street. Have beer sampler trays.

Max & Erma's Restaurant: <http://www.maxandermas.com>

Directly across the street from the Drury hotel, Nationwide blvd.

Brewery District Restaurants: Multiple bars & restaurants. (short cab ride – 4 miles)

This is on the immediate SW side of downtown. The Drury is on the immediate N side of downtown.

<http://www.urbanspoon.com/n/33/3202/Columbus/Brewery-District-restaurants>

Other Areas of Interest:

Columbus Museum of Art: <http://www.columbusmuseum.org/> (short cab ride – 9 blks, East Broad St.)

Center of Science & Industry: <http://www.cosi.org/> (short cab ride – ¼ mile, across river)

German Village: <http://germanvillage.com/> (short cab ride – 4 miles South of Drury)

some nice restaurants/bars down here too: Claremont; Lindeys; Schmidt's; G Michael's Bistro, Tony's Italian Ristorante, Gresso's, more.

Shopping & Malls:

Grocery: Krogers – Food/Beer/Wine – 1350 N High St, just past 5th Ave.

Turn North onto High Street. About 1.3 miles up High Street (through the short North) on your right.

Easton Mall (Town Center) – East side of Columbus – <http://www.eastontowncenter.com/>

Take I-670 East to I-270 North. Exit at Easton (Exit 33). You will be traveling on Easton Way.

The Town Center is on your right after the first traffic light.

Tuttle Crossing Mall – West side of Columbus – <http://www.simon.com/mall/default.aspx?ID=1229>

Take I-670 West – this merges into I-70 W, to I-270 North. Exit 15 Tuttle Crossing Blvd.