

TENTATIVE LASER REPAIR COURSE OUTLINE:

Planning Sheet

These are all subject to revisions or time changes as needed.

When you check in to the hotel for a course you'll get a schedule specifically for that week.

Lunch Each Day at approximately 12 noon, unless otherwise noted, at various restaurants around Columbus.

A little "buffer time" is built into the schedule by the end of the week, so that if we have technical problems that slow down the class we have enough time to recover. If everything goes smoothly then we have some extra time later in the week that you can choose to do more individual practice on your own if you want, or maybe just break early one day and use that time for study for the test or just relax for a while.

- NOTE - Some week long courses start on days other than Monday

Mon Day 1, 8:30 am to 4:30 pm

Mostly Lecture –

Laser, Energy & Optical Concepts

Laser & Energy Concepts -

Laser & Electrical Safety –

Lunch – China Bell?

Tues Day 2, 8:30am to 4:30 p.m.

Mostly Lecture –

Lenses & Simple Optics & Cleaning - lecture & demo

Intro to Laser Systems & Components & Basic PM Knowledge

(Anatomy and Physiology of Major Laser Types)

CO2 Laser Subsystems & Components. Review DC and RF excited, and sealed and flowing gas systems. -

Ion Laser Subsystems & Components (Argon & Krypton Lasers) -

Nd:Yag Laser Subsystems & Components –

(representative of solid state lasers overall, i.e. Alexandrite, Ho:Yag, Er:Yag, etc.)

1:30 pm. Power Meter Selection & Use –

Power Meter Selection & Use - Demonstration –

Laser Orientation, use & accessories TBD – demo "show & tell"

Lunch – Memories?

GROUP DINNER – Provided (estimate 7:30 pm) –**TBD**

(Dinners are also sometimes held on Weds instead of Tues)

Weds Day 3, 8:30am to 4:30 p.m.

HANDS-ON LABS: Core Laser Skills & Alignments. – Multiple faculty

PM's and basic procedures.

A.M. – Review of test questions, plus short videos of clinical procedures

Working Lunch at Facility Today - Catered

CO2 - divide into near/far alignments, plus arm alignments –

Argon - power tweaking, fiber launch alignments, cleaning brewster windows, passbank power supply. Review cooling system. Anode/Cathode Volts to reflect tube pressure. Slit Lamp basics. Tube changeouts. –

Nd:Yag - maintenance of laser cavity, changing of lamps, cleaning of flow tubes, power tweaking, alignment of fiber launch. Review cooling system, deionizer cartridges. Lamp replacement. -

Thurs Day 4, 8:30am to 4:00 p.m.

A.M. – Review of test questions, plus short videos of clinical procedures

A.M. - Continue HANDS-ON LAB Exercises as needed. – Multiple Faculty

Lunch – Catered

If we're making good time on the labs, we'll start tomorrow's schedule this afternoon. Otherwise this is buffer time for us to catch up if we need to. TBD

Fri Day 5, 8:30am to 4:00 p.m.

A.M. – Review of test questions, plus short videos of clinical procedures

HANDS-ON LABS: Core Laser Skills & Alignments – Multiple Faculty

(Stay together in group and rotate as groups)

- **Ophthalmic Q-Switched Nd:Yag Laser.** - Alignments, power measurement. Beam quality verification, ½ group

- **Ho:Yag Laser,** Maintenance, show & tell. ½ group

- **KTP Lasers: Laserscope, Lumenis,** Maintenance, show & tell, (demo) entire group

- **Q-Switched Lasers:** Ruby, Nd:Yag, KTP

Lunch – Golden Corral Buffet?

Sat Day 6, 8:30am to 4:00p.m.

A.M. – Review of test questions, plus short videos of clinical procedures

Continue sessions from Friday afternoon if needed. Other TBD. Reset Classroom seating
Lunch – early – 11:30AM – Memories

1:30 P.M. – Videoconference Lectures – Candela Lasers: Alexandrite, Pulsed Dye.

PM's, Dye Modules & Change outs, Flash lamp replacement, head rebuilds.

Sun Day 7, 9:00 am to 5pm

Review of technical points on all lasers, and how to proceed after this course –
Prepare customized “memory sticks” for each student with laser information and class photos. - Greg
Everyone takes different times to complete the exams. Some may be out by 2pm but you can't count on that. Plan on 5pm. Your hotel is covered for this night anyway.

SIGNING OF LASER BOARD BY CLASS -

Course Review and then the Certification Exam Review and Examination (at option of attendee) – Greg Absten
(4 hours is allotted for the exam. Most people finish in 2 to 2.5 hours. You'll know how you did before you leave)
NCLC Certification Testing - this is provided at no additional charge, and is taken at the discretion of attendee.

You get a Certificate of Laser Training for the course whether or not you choose to take the Certification exam.