TCN 105 Laser and Lab Safety

1.0 Credits

What this course is about...

This online course is about SAFETY - how to use potentially dangerous equipment and not get hurt. It is a required course for ALL students in Laser and Fiber Optic Technology (A.S. degree and certificate) and ALL students who will be taking Manufacturing Processes.

The course is divided into two parts: Modules specific to your plan of study (college major) are followed by general lab safety modules for all students. A short final project will help you use your new safety knowledge by applying it to a specific situation.

Be sure to refer to the course schedule file on the home page for the due dates for each module. **Print out the schedule and use it as a checklist to help you plan your time**.

How this course works....

TIME MANAGEMENT: You may work on this course when it is convenient for you **as long as you keep up with the course schedule.** The best way to manage your time is to set aside the same time each week to work on the course. There ARE due dates, so you need to pay attention and make sure you don't get behind. Remember, **technology problems can arise** and if you wait until the last minute, you might not get the work done in time. **Print out the schedule and use it as a checklist to help you plan your time**.

THE CONTENT MODULES: Each module in the course consists of a video, text reading or web sites (or some combination of these) and a knowledge assessment quiz. There are nine modules. The first five are major-specific. That is, Laser Technology students do one set and Manufacturing/Mechanical Technology students do the other. The last five modules are the same for all students and cover general lab and shop safety. If you are in General Engineering Technology, Manufacturing Engineering Technology/Laser Manufacturing Option or some other major please contact the instructors to find out which modules you should be doing.

THE QUIZZES Quizzes consist of true/false, multiple choice, short answer and paragraph questions. The quizzes will be available up to one week after the module is presented, then it will be taken down. If you haven't completed the quiz at that time, you will receive a zero. You may take each quiz up to two times (with a one hour delay between attempts to go back and check your work.) Your grade will be the average of your two attempts. Some questions may have to be manually graded by the instructor so you may not see your final quiz grade right away- another reason not to wait until the last minute.

THE MINI-PROJECT After all the material is persented, you will have the opportunity to use the safety knowledge you've learned in a "real life" situation by completing a short project. The projects are different for Laser and Mechanical/Manufacturing technology students.

HOW TO SUCCEED...

Read the study questions prior to viewing the video or reading the text questions. These are found in the Learning Objectives or "Start here" file in each module's folder.
Think about the questions as you do the assignment
Take the knowledge assessment quiz.
Retake the quiz if necessary, after looking up the questions you got wrong.

IF YOU HAVE QUESTIONS

For Laser Safety content email Professor Donnelly (jdonnelly@lasertechonline)

For Machine Shop Safety content email Professor Knowles (pknowles@trcc.commnet.edu).

Live help (when available) Click on "who's online" to see if an instructor is available to help you.

FOR COMPUTER/BROWSER RELATED QUESTIONS CONTACT

Blackboard Online Technical Support (24/7)

http://d2.parature.com/ics/support/default.asp?deptID=8134

Learning Objectives

This course is taken by students in several engineering technology programs, and objectives vary somewhat depending on whether you are in shop safety or laser safety. Specific learning goals are found in each of the online weekly module folders. Everyone will:

- explain the basic concepts and vocabulary of shop safety (and laser safety, for LFOT students) such as maximum permissible exposure, personal protective equipment and material safety data sheets

- be able to locate information in print and on the web pertaining to safety in their own technology area

- be able to survey a workplace and cite unsafe practices

- specify administrative and engineering safety controls for various laboratory and/or shop situations.