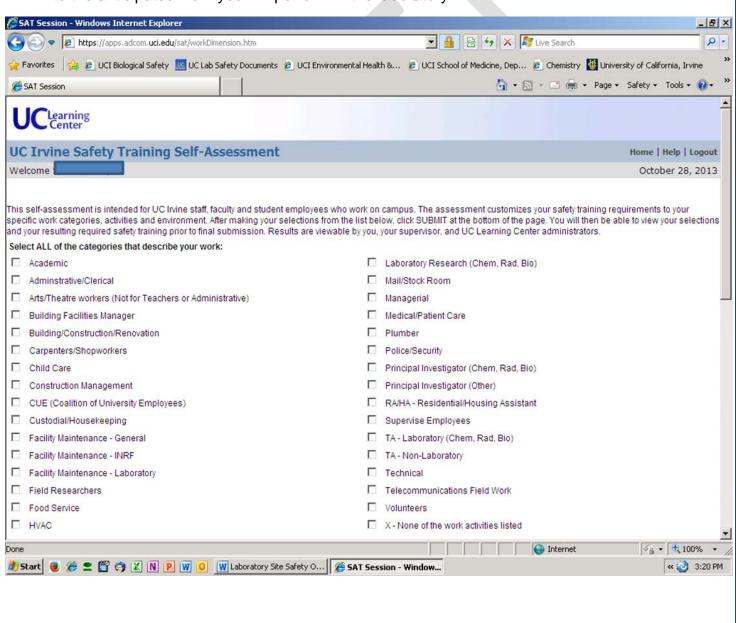
UC Irvine Laboratory Site Safety Training Checklist

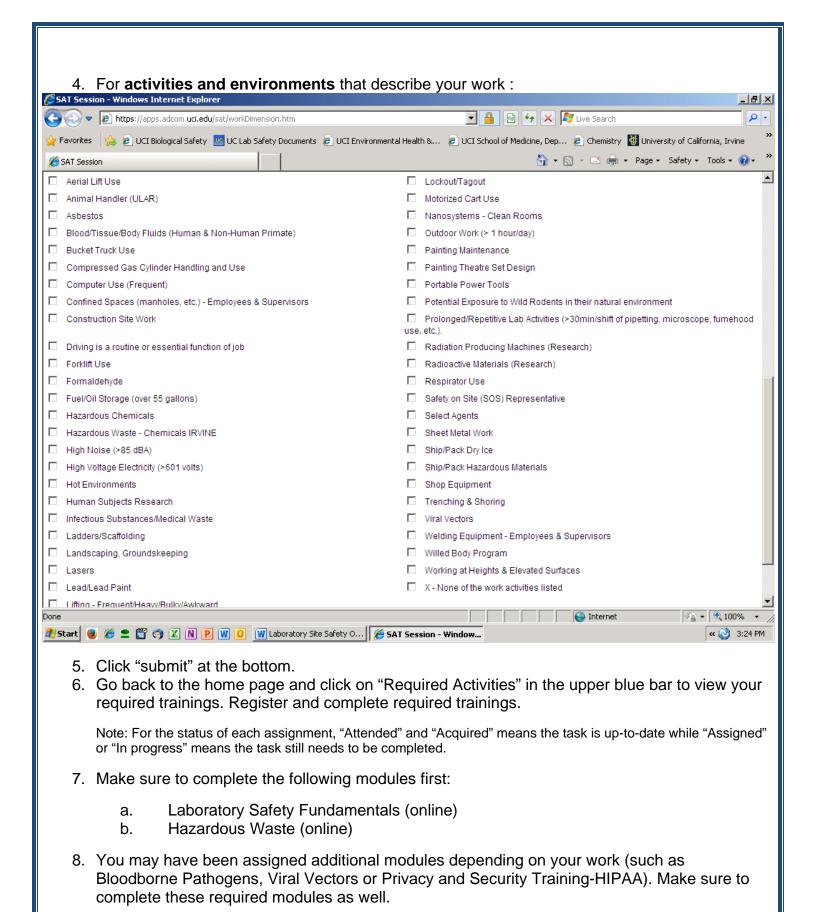
Prior to beginning work at any UCI Laboratory you must complete the following:

- Read and understand the contents of this Checklist
- Receive training on specific laboratory safety requirements and procedures for your laboratory
- Complete all steps required by this checklist and ensure that you and your PI have signed the document

UC Learning Training Modules:

- 1. Go to http://uclc.uci.edu, click "Login" and enter your UClnetID and password.
- 2. Click on "Learner" icon at the top of the page, click the "Campus" tab and then click on "Safety Training Self-Assessment" in the bottom blue bar.
- 3. Fill out questionnaire using the following information (PI /Lab Supervisor must tailor this section to the anticipated work you will perform in the laboratory:





Work Unit Specific Training: Your PI/Lab Supervisor or designated Safety Representative will cover the following topics with you.

Initial	Training Topics
	Emergency Procedures
	Fire alarm pull station: Locations and activation instructions.
	Fire Extinguisher: Location and activation instructions.
	Eye wash/safety showers: Locations and activation instructions.
	First aid kits: Locations and content review.
	Phone: Locations and dialing of '911' instructions.
	Emergency Procedures Guide: Flipchart locations and discussion of actions for each scenario listed.
	Shelter-in-Place: Review of shelter-in-place lab securing procedures.
	Primary and Secondary Routes of Egress: Walk of both pathways to Emergency Assembly Area and review of disabled employee evacuation procedures.
	Emergency Assembly Area: Review of lab gathering point and evacuation procedures.
	Reverse 911: Enroll in campus emergency alert system.
	Engineering Controls
	Chemical fume hoods: Demonstration of proper use and instruction on adjustable controls.
	Biological safety cabinets: Demonstration of proper use and instruction on adjustable controls.
	Chemical storage locations: Locations and segregation rules.
	Laboratory Ventilation: Laboratory is slightly negative with respect to the hallway
	Other engineering controls (glove boxes, gas cabinets): Demonstration of proper use and instruction on adjustable controls Describe:
	Administrative Controls
	Laboratory Safety Manual (including Chemical Hygiene Plan): Location and content description.
	SDS: Demonstration of electronic access to Safety Data Sheet repository.
	Laboratory Standard Operating Procedures (SOPs): Review of SOP locations, required approvals and signature of understanding for each SOP.
	Chemical Inventory: Access and use of inventory system (Cibr-trac).
	Chemical Processes: Identification of areas requiring specific SOPs.
	Reporting: Safety Concerns, Near-Misses notification to Supervisor or PI.
	Hazard-Specific Safety Training: Determine additional courses needed. Enroll

in courses	
in courses. Authorizations:	
 □ Radiation Use Authorization-Submit a Radioisotope User Enrollment form □ Laser Use Authorization- 	
 □ Controlled Substances-Submit a Personnel Screening Data Sheet (PSDS) □ Animal Worker- 	
 □ Attend Orientation to Animal research and obtain card key □ Complete CITI Training 	
 □ Complete the LAOHP medical screening questionnaire □ IBC protocol modification form-PI or SR to add your name to the protocol(s) 	
Personal Protective Equipment	
Access and review the Laboratory Hazard Assessment Tool, complete training and obtain PPE via EH&S	
 Lab Coat: Provide at no cost a fitted lab coat(s). Certain labs require flame resistant lab coats. (<i>Provide established instructions here</i>) 	
Type: □FR □Standard □ Barrier	
Eye protection:	
Provide at no cost a fitted pair(s) of safety glasses and/or safety goggles. Safety eyewear must be of the type and adjusted accordingly to be worn comfortably and stay securing in place. (<i>Provide established instructions here</i>) Corrective Prescription Y/N Model:	
Gloves:	
Location, knowledge to select correct type, and donning/doffing instructions.	
Other:	
Waste Disposal	
Hazardous Waste Accumulation Area: Demonstrate: Location, proper labeling, proper storage requirements, and process to request pick-up.	
Other	
Understands safety procedures for specific operations (e.g., UV light, laser, safe use of specialized equipment, high voltage equipment, confined space, etc.). (See SOS binde and sign off on all established SOPs as needed)	
EH&S Reproductive Health Program information	
Hazardous Lab equipment (autoclaves, cryostat, centrifuge, table saws) List here: Other Topics:	

Laboratory Worker Signature

I certify I have been provided with and understand the information in the Laboratory Site Safety Training Checklist. I understand I am responsible for adhering to all safety laws, rules, and regulations while working at UC Irvine

Print Your Name	Signature
PI Name and Signature	Date

Nizkorodov Laboratory Specific Safety Requirements

No individual is permitted to work in areas where chemicals are in use until the following document has been properly submitted.

Students and researchers, after completing the Environmental Health & Safety (EH&S) required training, sign this document and file it in the SOS binder under Tab 3 (Hazard Assessment & Corrections Tool + Training Records).

- 1. Students and researchers must read, understand, and sign the Hazard Assessment Document found in the Safety on Site (SOS) binder located at the Nizkorodov laboratory SR's desk.
 - a. The Hazard Assessment is performed annually in the Nizkorodov lab.
- The University of California, Irvine (UCI) requires researchers to take an online self-assessment through UC Learning Center (UCLC) located online at http://www.uclc.uci.edu, and then complete all indicated required training. For detailed instructions on how to log into UCLC, see page 5 of this document.
- 3. The UCI Laboratory Safety and Chemical Hygiene Plan (CHP) can be accessed at http://www.ehs.uci.edu/programs/lsg/TABLEofCONTENTS.pdf. The CHP should be consulted prior to working with chemical substances and the students and researchers in the Nizkorodov laboratory must read and understand the following two sections of the Laboratory Safety Guidelines:
 - a. UCI Laboratory Safety Guidelines-Section 2, Chemical Hazards- Recognition, Evaluation and Control
 - b. UCI Laboratory Safety Guidelines-Section 3, Physical Hazards- Recognition, Evaluation, and Control
- 4. Material Data Safety Sheets (MSDS) can be viewed online at http://www.ehs.uci.edu/msds.html. They should be consulted every time prior to working with specific chemical substances.

- 5. Students and researchers in the Nizkorodov laboratory must read and understand the following Standard Operating Procedures (SOPs) that can be found on the UCI EHS Safety Training Resources webpage: http://www.ehs.uci.edu/programs/sop_library/
 - a. Laser Safety
- 6. Students and researchers in the Nizkorodov laboratory must read and understand all of the Standard Operating Procedures (SOPs) relate to the types of experiments and instruments said person will utilize found on the Nizkorodov Group "Intranet" Webpage: http://aerosol.chem.uci.edu/intranet/index.htm
 - a. Students and researchers should discuss with Dr. Nizkorodov which SOPs listed are applicable to their specific research.
- 7. Students and researchers must attend a laboratory specific safety **orientation** performed by the SR. There is a separate file covering the orientation. Topics of this orientation should include:
 - location and proper use of safety equipment
 - emergency procedures including steps for personal injury, hazardous spills and evacuations

- basic laboratory safety rules (see CHP, Safety Rules)
- location, selection and when to wear Personal Protective Equipment (PPE)
- location and methods for hazardous waste disposal
- access and maintenance of hazardous material inventories
- provisions for working in the lab alone
- other hazards specific to the research group

I, Laboratory Specific Safety Require complete it before I start laboratory e	ments, and I have completed the re	read and understand the Nizkorodov quired training or am scheduled to
·		
Signature	Date	
PI Full Name	Date	
SOS Representative Signature	Print Name	 Date

Additional Nizkorodov-Specific Safety Requirements

- 1. Except when at one's desk or walking from the hall directly to the desk, safety glasses must be worn at all times when in the lab. For people with prescription glasses, sideshields must be worn at all times in the lab. Laboratory coats must be worn when in the vicinity of chemicals.
- 2. Flip-flops (or other open-toed shoes) are not permitted in the lab.
- 3. Shorts, open tops, and other clothing revealing large skin areas may not be worn in the lab (OK for office only work).
- 4. Always keep all doors to the dry and liquid chemical cabinets closed.
- 5. Latex, nitrile, etc. gloves cannot touch doorknobs, computer mice, or other items in clean areas. Chemically contaminated items (lab coats, bottles, TLC plates, NMR tubes, etc.) are not permitted in these areas either.
- 6. Any procedure involving large amounts of chemicals, i.e., any reaction or procedure that that is carried out in a 1 L flask or with 50 mmol of substrate in any vessel, cannot be performed when alone in the lab.
- 7. Solvent bottles greater than 1 L (except water) cannot be left unattended on bench tops or on the floor. No chemical-containing bottle can be on the floor without secondary containment (attended or not).
- 8. 5 gallon solvent containers should <u>never</u> be purchased for this lab, except for: 1) water; 2) pump oil; 3) ethanol for chillers.
- 9. Hazardous operations should not be performed in locations where hazardous materials are stored in bulk (e.g. flame-drying glassware in the presence of organic solvents).
- 10. **No one should work with pyrophoric material and/or PHS compounds alone.** Prior to working with these types of substances, researchers should consult an appropriate operating procedure and a coworker who is already familiar with the procedure.

General Lab Rules that Everyone Needs to Follows

- 1. At the end of the day, if you are the last one in the lab or in your office:
 - a. Make sure all the lab and office doors are locked before you leave.
 - b. Turn off the lights in your office.
 - c. Makes sure the hood sashes are down and their lights are off.
 - d. Either turn off your computer or put it into standby/sleep mode.
 - e. Turn off your computer monitors.
- 2. When you use tools/scissors/etc. from the lab, please put them back in their correct location when you are done with them.
- 3. Save all packing slips on all packages containing chemical, equipment, etc. delivered to our lab and ordered through the Purchasing Office. Place packing slips in the clear file holder located in the wall next to the sink in the front of the lab.
- 4. For any *GENERAL* lab supplies that need to be ordered, we have a sign-up sheet on the cabinet next to the sink. If you notice that you are the last person to use one of the supplies (i.e. gloves, Kimwipes, etc.) then please put them on the order list so they can get here before we completely run out. (NOTE: this sheet is for general lab supplies only. If you need supplies that are specific to your experiment, then order them yourself.)
- 5. For new chemicals that come in to the lab, whether they are ordered or bought at PS Stores:
 - a. If you ordered them through Purchasing:
 - i. MOST IMPORTANT: put the bar code sticker on the bottle
 - ii. Transfer the chemical from "Nizkorodov's Received Items" and into our lab (385 or 350)
 - b. Register the chemical in the databases as described in the orientation.
 - c. When you use the chemical, write the date on the bottle of when it was first opened.
- 6. For old chemicals/empty chemical bottles that are disposed of, enter the RN number in the worksheet maintained by the lab safety coordinator so that the chemical can be removed from the database.