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Mechanical and Aerospace Engineering

INJURY AND ILLNESS PREVENTION PROGRAM



Date of last Revision: 07 May, 2020

UC DAVIS

Mechanical and Aerospace Engineering

INJURY AND ILLNESS PREVENTION PROGRAM

This Injury and Illness Prevention Program has been prepared by the University of California, Mechanical and Aerospace Engineering department in accordance with University Policy (UCD Policy & Procedure Manual Section 290-15: Safety Management Program) and California Code of Regulations Title 8, Section 3203 (8 CCR, Section 3203).

Revision History:

May 2020: revised by Krasen Kovachev Updated links and departmental info Added Center for Spaceflight Research Added Lab Injury or Exposure poster Revised MAE's Initial and Annual Safety Training form

March 2019: revised by Loan-Anh Nguyen Modified location for inspection records to be electronics based Revised Site Specific Orientation and Training form for HazCom Revised Annual Refresher Group Training form

September 2018: revised by Loan-Anh Nguyen Added Solar Dish Site Modified and added more JSA Various information update and modifications

September 2017: revised by Loan-Anh Nguyen
Implemented new IIPP template
Removed Ghausi Hall
Added building contact information
Updated and listed more JSA's
Modified and added relevant safety training forms for Chemical Hygiene Plan and Hazard
Communication labs.

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Mechanical and Aerospace Engineering

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Department Information

Department Name: Mechanical and Aerospace Engineering

Department Chairperson: Cristina Davis

Address: 2132 Bainer Hall • One Shields Avenue • Davis, CA 95616-5294

Telephone Number: (530) 752-0580

Buildings Occupied by Department

1. Building: Bainer Hall and Bainer Wind Tunnel Building

Unit(s): Administration, Research and Teaching

Contact: Krasen Kovachev Phone: 530-752-8488

2. Building: Kemper Hall Unit(s): Research

Contact: Krasen Kovachev Phone: 530-752-8488

3. Building: TB207 Unit(s): Research

Contact: Krasen Kovachev Phone: 530-752-8488

4. Building: Academic Surge Building

Unit(s): Administration, Research and Teaching

Advanced Highway Maintenance and Construction Technology Research

Center (AHMCT)

Contact: Krasen Kovachev, Wil White Phone: 530-752-8488, 530-752-1455

5. Building: Advanced Transportation Infrastructure Research Center (ATIRC)

Unit(s): Research
Contact: Wil White
Phone: 530-752-1455

6. Building: Advanced Materials Research Laboratory (AMRL)

Unit(s): Research

Contact: Krasen Kovachev Phone: 530-752-8488

7. Building: Center for Spaceflight Research (CFSR)

Unit(s): Research

Contact: Krasen Kovachev Phone: 530-752-8488

I. Authorities and Responsible Parties

The authority and responsibility for the implementation and maintenance of the Injury and Illness Prevention Program (IIPP) is in accordance with University Policy (<u>UCD Policy & Procedure Manual Section 290-15: Safety Management Program</u>) and California Code of Regulations (<u>8 CCR, Section 3203</u>) and is held by the following individuals:

1.	Name: Cristina Dav	is				
	Title: Department C	hairperson				
	Authority: Authority	and responsibilit	y for rev	iewing and ensuring	implementation	of this IIPP
	Signature:	ON FILE		Date:		_
2.	Name: Krasen Kova	chev				
	Title: Department S	afety Coordinato	r			
	Authority: Departme	ent designated autl	hority fo	r implementation of	this IIPP	
	Signature:	ON FILE		Date:		_
IIPP in Manua	ncipal Investigators and their areas of responsed Section 290-15: Safettal Review Docu	sibility in accordar ety Management F	nce with	University Policy (U		
Respo	onsible/Designated Au	<u>ithority</u>		<u>Date</u>		
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			_			

II. System of Communications

estabii	sned using the following methods:
	Standard Operating Procedures Manual
	Safety Data Sheets
	Monthly departmental operations meetings
	Internal media (department safety information is found on the department main website)
	EH&S Safety Nets
	Training videos
	Safety Newsletter
	Handouts
	Building Evacuation Plan
	E-mail
	Posters and warning labels
	Job Safety Analysis (as part of this department IIPP document)
	Other (list):
	MAE Departmental Safety Training is provided initially to newcomers to the department and as a refresher training for all others.
	A safety bulletin is located in the main hallway near the administrative offices.
	A salety building is located in the main hallway hear the administrative offices.

1. Effective communications with **Mechanical and Aerospace Engineering** employees have been

- 2. Employees are encouraged to report any potential health and safety hazard that may exist in the workplace. Hazard Alert/Correction Forms (Appendix A) are available to employees for this purpose. Forms are to be placed in the Safety Coordinator's departmental mail box. Employees have the option to remain anonymous when making a report.
- 3. Employees have been advised of adherence to safe work practices and the proper use of required personal protective equipment. Conformance will be reinforced by discipline for non-compliance in accordance with University policy (<u>UC Davis Personnel Policies for Staff Members- Section</u> 62, Corrective Action).

III. System for Assuring Employee Compliance with Safe Work Practices

Employees have been advised of adherence to safe work practices and the proper use of required personal protective equipment. Conformance will be reinforced by discipline for non-compliance in accordance with University policy (UC Davis Personnel Policies for Staff Members- Section 62, Corrective Action).

The following methods are used to reinforce conformance with this program:

- 1. Distribution of Policies
- 2. Training Programs
- 3. Safety Performance Evaluations

Performance evaluations at all levels must include an assessment of the individual's commitment to and performance of the accident prevention requirements of his/her position. The following are examples of factors considered when evaluating an employee's safety performance.

- Adherence to defined safety practices.
- Use of provided safety equipment.
- Reporting unsafe acts, conditions, and equipment.
- Offering suggestions for solutions to safety problems.
- Planning work to include checking safety of equipment and procedures before starting.
- Early reporting of illness or injury that may arise as a result of the job.
- Providing support to safety programs.
- 4. Statement of non-compliance will be placed in performance evaluations if employee neglects to follow proper safety procedures, <u>and</u> documented records are on file that clearly indicate training was provided for the specific topic, and that the employee understood the training and potential hazards.
- 5. Corrective action for non-compliance will take place when documentation exists that proper training was provided, the employee understood the training, and the employee knowingly neglected to follow proper safety procedures. Corrective action includes, but is not limited to, the following: Letter of Warning, Suspension, or Dismissal.

IV. Hazard Identification, Evaluation, and Inspection

Job Hazard Analyses and worksite inspections have been established to identify and evaluate occupational safety and health hazards.

1. Job Safety Analysis:

Job Safety Analysis (JSA) identifies and evaluates employee work functions, potential health or injury hazards, and specifies appropriate safe practices, personal protective equipment, and tools/equipment. JSA's can be completed for worksites, an individual employee's job description, or a class of employees' job description. Completed JSA's are located in **Appendix B**.

The following resources are available for assistance in completing JSA's:

- Laboratory personnel, please refer to the Laboratory Hazard Assessment Tool
- Non-Laboratory personnel, please refer to the <u>JSA/PPE Certification Forms</u>

2. Worksite Inspections

Worksite inspections are conducted to identify and evaluate potential hazards. Types of worksite inspections include both periodic scheduled worksite inspections as well as those required for accident investigations, injury and illness cases, and unusual occurrences. Inspections are conducted at the following worksites:

1) Location: On-Campus Research Laboratories

Frequency: Annual

Responsible Person: EH&S and Fire Safety Officers, Lab PI or Lab Safety Manager

Records Location: Electronics, and Lab Safety Binders

2) Location: Off-Campus Research Laboratories

Frequency: Annual

Responsible Person: EH&S Safety Officer, Lab PI or Lab Safety Manager

Records Location: Electronics, and Lab Safety Binders

Worksite Inspection Forms are located in **Appendix** C (C1 - General Office and C2 - Laboratory).

V. Accident Investigation

University Policy requires that work-related injuries and illnesses be reported to Workers' Compensation within 24 hours of occurrence and state regulation requires all accidents be investigated.

Mechanical and Aerospace Engineering employees will immediately notify their supervisor when occupationally-related injuries and illnesses occur, or when employees first become aware of such problems.

- 1. **Supervisors** will investigate all accidents, injuries, occupational illnesses, and near-miss incidents to identify the causal factors or attendant hazards. Appropriate repairs or procedural changes will be implemented promptly to mitigate the hazards implicated in these events. Proper injury reporting procedures can be found at http://safetyservices.ucdavis.edu/article/injury-reporting-procedure.
 - The <u>Injury and Illness Investigation Form</u> (Appendix D) shall be completed to record pertinent information and a copy retained to serve as documentation. It can be completed by either the supervisor or the Department Safety Coordinator.
- 3. **Note:** Serious occupational injuries, illnesses, or exposures must be reported to Cal/OSHA by an EH&S representative <u>within eight hours</u> after they have become known to the supervisor. These include injuries/illnesses/exposures that cause permanent disfigurement or require hospitalization for a period in excess of 24 hours. Please refer to <u>EH&S SafetyNet #121</u> for OSHA notification instructions.

VI. Hazard Correction

Hazards discovered either as a result of a scheduled periodic inspection or during normal operations must be corrected by the supervisor in control of the work area, or by cooperation between the department in control of the work area and the supervisor of the employees working in that area. Supervisors of affected employees are expected to correct unsafe conditions as quickly as possible after discovery of a hazard, based on the severity of the hazard.

Specific procedures that can be used to correct hazards include, but are not limited to, the following:

- Tagging unsafe equipment "Do Not Use Until Repaired," and providing a list of alternatives for employees to use until the equipment is repaired.
- Stopping unsafe work practices and providing retraining on proper procedures before work resumes.
- Reinforcing and explaining the need for proper personal protective equipment and ensuring its availability.
- Barricading areas that have chemical spills or other hazards and reporting the hazardous conditions to appropriate parties.

Supervisors should use the <u>Hazard Alert/Correction Report</u> (Appendix A) to document corrective actions, including projected and actual completion dates.

If an imminent hazard exists, work in the area must cease, and the appropriate supervisor must be contacted immediately. If the hazard cannot be immediately corrected without endangering employees or property, all personnel need to leave the area except those qualified and necessary to correct the condition. These qualified individuals will be equipped with necessary safeguards before addressing the situation.

VII. Health and Safety Training

Health and safety training, covering both general work practices and job-specific hazard training is the responsibility of the **Principal Investigator** and immediate Supervisor(s) as applicable to the following criteria:

- 1. Supervisors are provided with training to become familiar with the safety and health hazards to which employees under their immediate direction and control may be exposed.
- 2. All new employees receive training prior to engaging in responsibilities that pose potential hazard(s).
- 3. All employees given new job assignments receive training on the hazards of their new responsibilities prior to actually assuming those responsibilities.
- 4. Training is provided whenever new substances, processes, procedures or equipment (which represent a new hazard) are introduced to the workplace.
- 5. Whenever the employer is made aware of a new or previously unrecognized hazard, training is provided.

The **Safety Training Attendance Record** forms are located in **Appendix E**.

VIII. Recordkeeping and Documentation

Documents related to the IIPP are maintained in/at/on:

Mechanical and Aerospace Engineering website, department safety coordinator's office in Bainer 2101, and individual laboratories (safety binders and/or electronics records).

The following documents will be maintained within the department or specific laboratory's IIPP Binder for at least the length of time indicated below:

- 1. Hazard Alert/Correction Forms (Appendix A form). Retain for three (3) years.
- 2. Employee Job Safety Analysis (Appendix B)
 Retain for the duration of each individual's employment.
- 3. Worksite Inspection Forms (Appendix C form). Retain for three (3) years.
- 4. Injury and Illness Investigation Forms (Appendix D form). Retain for three (3) years.
- 5. Employee Safety Training Attendance Forms (Appendix E forms). Retain for three (3) years.

IX. Resources

- 1. UC Office of the President: Management of Health, Safety and the Environment, 10/28/05
- 2. UC Davis Policy and Procedure Manual, Section 290-15, Safety Management Program
- 3. California Code of Regulations Title 8, Section 3203, (<u>8CCR §3203</u>), Injury and Illness Prevention Program
- 4. Personnel Policies for Staff Members, Corrective Action, <u>UC PPSM 62</u>
- 5. UC Davis Environmental Health & Safety
 - Safety Services Website
 - EH&S SafetyNets
 - Safety Data Sheets
- 6. MAE department website and department Safety bulletin down the hall from the administrative offices.

Appendices – IIPP Forms

Appendix A: Hazard Alert/Correction Form

Appendix B: Job Safety Analysis

Appendix C1: Office Worksite Inspection Form

Appendix C2: Self-Inspection Checklist

Appendix D: Injury and Illness Investigation Form Appendix E: Safety Training Attendance Forms Appendix F: Laboratory Injury or Exposure poster

Appendix A: HAZARD ALERT / CORRECTION FORM

Department:	
I. Unsafe Condition or Hazard	
Name: (optional)	Job:
Title: (optional)	
Location of Hazard:	
Building: F	loor:Room:
Date and time the condition or hazard was observed	::
Description of unsafe condition or hazard:	
What changes would you recommend to correct the	condition or hazard?
Employee Signature: (optional) Date:	
II. Management/Safety Committee Investigation	
Name of person investigating unsafe condition or ha	azard:
Results of investigation (What was found? Was con sheets if necessary.)	dition unsafe or a hazard?): (Attach additional
Proposed action to be taken to correct hazard or uns Correction Report, IIPP Appendix E)	afe condition: (Complete and attach a Hazard
Signature of Investigating Party:	
Date:	

IIPP-Appendix A January 2016 Completed copies of this form should be routed to the appropriate supervisor and department Safety Coordinator, and must be maintained in department files for at least three years.

HAZARD ALERT / CORRECTION REPORT

Alert Identification No				
Department:				
This form should be used in to track the correction of ide		n the "Hazard Alert Form" (III	PP Appendix A)	, as appropriate,
	immediately con	possible, based on the sever rected, evacuate personnel fr	•	
Supervisor/Safety Coordina	ator Name:		Telephone:	
Supervisor/Safety Coordina	ator Signature: _		Date:	
Description and Location of Unsafe	Date	Required Action and	Comple	tion Date
Condition	Discovered	Responsible Party	Projected	Actual

IIPP–Appendix A January 2016 Completed copies of this form should be routed to the department Safety Coordinator and kept in department files for at least three years.

Appendix B: Job Safety Analysis

Job Function	Potential Health or Injury Hazard	Safe Practice, Apparel, or Equipment
Performing work in laboratories containing chemicals.	Exposure to chemicals via inhalation, contact, ingestion or injection.	Avoid all unnecessary exposures. Reduce exposures that cannot be avoided by minimizing exposure duration and concentration. Proper selection and use of personal protective equipment including gloves, protective eyewear, lab coats, and in some instances respiratory protection. Implementation of proper personal hygiene habits, including washing hands and face before eating and smoking. All personnel to receive UC Laboratory Safety Fundamentals, MAE Safety training, Site-specific training inlcuding Chemical Hygiene Plan or Hazard Communication Program, Hazardous Waste Management and Minimization Training and other applicable courses before beginning work.
Performing work in laboratories containing radiological materials.	Exposure to radiological agents via inhalation, contact, ingestion or injection.	Avoid all unnecessary exposures. Adhere to radiological material handling procedures including limiting exposures through combination of minimizing time, maximizing distances and use of appropriate shielding. Proper selection and use of personal protective equipment including gloves, protective eyewear, lab coats, and in some instances respiratory protection Implementation of proper personal hygiene habits, including washing hands and face before eating and smoking. Participation in radiological monitoring program including dosimetry. All personnel to receive UC Laboratory Safety Fundamentals, MAE Safety training, Site-specific training inlcuding Chemical Hygiene Plan or Hazard Communication Program, Radiation Safety training and other applicable courses before beginning to work.
Performing work in laboratories containing biological materials.	Exposure to biological agents via inhalation, contact, ingestion or injection.	Avoid unnecessary exposures. Proper selection and use of personal protective equipment including gloves, protective eyewear, lab coats, and in some instances respiratory protection. Proper adherence to blood borne pathogen handling protocols. Implementation of proper personal hygiene habits, including washing hands and face before eating and smoking. Voluntary participation in Hepatitis B vaccination program. Proper adherence to biological waste handling procedures. All personnel to attend UC Laboratory Safety Fundamentals, MAE Safety training, Site-specific training inlcuding Chemical Hygiene Plan or Hazard Communication Program, EH&S Blood borne Pathogen Program training and other applicable courses before beginning to work. Participation in Facilities- specific medical clearances as required.
Performing work in laboratories, shops and spaces containing physical hazards.	Injury from physical hazards including high voltage, lasers and ultraviolet light, compressed gases and liquids, cryogenic materials, and specialized equipment as well as falling objects.	Avoid unnecessary exposures. Proper selection and use of personal protective equipment including gloves, protective eyewear and specialized equipment. Employees are not to enter restricted areas unless accompanied by a properly trained individual familiar with the hazards of the area. Employees are not to operate specialized equipment without proper training and documentation. Watch for overhead hazards and wear head protection if needed. All personnel to attend UC Laboratory Safety Fundamentals, MAE Safety training, Site-specific training inlcuding Chemical Hygiene Plan or Hazard Communication Program, and other applicable courses before beginning to work.
Performing work in laser laboratories.	Potential exposure to specular or diffuse reflections.	Avoid all unnecessary exposures to Class 3b and 4 laser beams. Intrabeam viewing is strictly forbidden at UC Davis. Proper laser safety eyewear is mandatory when the laser is activated unless the beam has been enclosed which effectively changes the class of the laser to a Class 1 (eye safe). When aligning the laser, power down with a visible beam, preferably a Class 3a HeNe. Alignment eyewear is available but once the laser is aligned do not assume that it is eye safe, wear your laser safety eyewear. When choosing proper eye protection one must take into account the power or energy and the wavelength of the laser or laser system. Contact the campus Laser Safety Officer to calculate the Optical Density for your eyewear or check with your Principle Investigator. Employees are not to operate lasers or laser systems without proper training and documentation. Employees or visitors must take the UC Davis Laser Safety Class and be trained on the specific laser they will be using. A Standard Operating Procedure must be in place for each laser or laser system before use. Be aware that there are ancillary hazards associated with the laser and take appropriate precautions. Personnel routinely entering areas where lasers are used will receive UC Laboratory Safety Fundamentals, MAE Safety training, Site-specific training inleuding Chemical Hygiene Plan or Hazard Communication Program, Laser Safety training, and other applicable courses before beginning work.

Job Function	Potential Health or Injury Hazard	Safe Practice, Apparel, or Equipment
Performing work in laboratories and animal housing facilities containing animals.	Exposure to animals and animal allergies via inhalation and contact	Avoid unnecessary exposures. Proper selection and use of personal protective equipment including gloves, protective eyewear, lab coats, and in some instances respiratory protection. Proper adherence to animal care and use protocols. Implementation of proper personal hygiene habits, including washing hands and face before eating and smoking. Participation in the occupational health program for animal workers. All personnel to receive UC Laboratory Safety Fundamentals, MAE Safety training, Site-specific training inlcuding Chemical Hygiene Plan or Hazard Communication Program, the IACUC Animal Care and Use 101, and other applicable courses before begining work. Participation in Facilities- specific medical clearances as required.
Handling and moving heavy items and equipment.	Ergonomic hazards including heavy lifting, repetitive motions, awkward motions, crushing or pinching injuries etc.	Get help with all loads that cannot be safely lifted by one person. Use mechanical means to lift and move heavy items, push carts and dolly rather than pull, attend back safety class, employ proper lifting techniques at all times. Set up work operations as ergonomically safe as practical. Wear proper hand and foot protection to protect against crushing or pinching injuries. All personnel to receive MAE Safety training, Site-specific training, and other applicable training before begining to work.
Operation of motor vehicles	Motor vehicle accidents involving personal injury, or property damage	All drivers of University vehicles must attend the Driver Safety Awareness Course offered by Fleet Services and possess a valid California driver license. Hazardous materials may not be transported in personally owned vehicles. All personnel to receive MAE Safety training, Site-specific training, and other applicable training before begining to work.
Exposure to noise hazards	Hearing loss due to noise exposure	Voluntarily participate in the Hearing Conservation Program. Use hearing protection as required. All personnel to receive MAE Safety training, Site-specific training, and other applicable training before beginning to work.
General office work	Back strain, eyestrain, repetitive motion injury. Physical injuries due to slips, trips and falls, and falling objects. Electrical hazards. Physical injuries due to fires, earthquakes, bomb threats and workplace violence.	Ensure that workstations are ergonomically correct. Keep floors clear of debris and liquid spills. Keep furniture, boxes, etc. from blocking doorways, halls and walking space. Do not stand on chairs of any kind, use proper foot stools or ladders. Do not store heavy objects overhead. Do not top load filing cabinets, fill bottom to top. Do not open more than one file drawer at a time. Brace tall bookcases and file cabinets to walls. Provide one-inch lip on shelves. Do not use extension cords in lieu of permanent wiring. Ensure that high wattage appliances do not overload circuits. Use GFCIs in receptacles in potentially wet areas. Replace frayed or damaged electrical cords. Ensure that electrical cords are not damaged by being wedged against furniture or pinched in doors. Attend emergency action and fire prevention plan training including emergency escape drills. Plan for methods to seek help in case of a workplace violent situation. All personnel to receive MAE Safety training, Site-specific training, and other applicable courses before beginning to work.

Appendix C1: WORKSITE INSPECTION FORMGeneral Office Environment

Locat	ion:						Date:				
Inspector:					Phone:						
Depar	rtme	nt:									
							Administration and Training				
Yes		No		NA		1.	Are all safety records maintained in a centralized file for easy access? Are they current?				
Yes		No		NA		2.	Have all employees attended Injury & Illness Prevention Program training? If not, what percentage has attended?				
Yes		No		NA		3.	Does the department have a completed Emergency Action Plan? Are employees being trained on its contents?				
Yes		No		NA		4.	Material Safety Data Sheets needed?				
Yes		No		NA	5. Are the Cal/OSHA information poster, Workers' Compensation bulletin, an accident summary posted?						
Yes	Yes No NA				6.	Are annual workplace inspections performed and documented?					
	General Safety										
Yes		No		NA		7.	Are exits, fire alarms, pullboxes clearly marked and unobstructed?				
Yes		No		NA		8.	Are aisles and corridors unobstructed to allow unimpeded evacuations?				
Yes		No		NA		9.	Is a clearly identified unobstructed charged currently inspected and tagged				
Yes		No		NA		10.	Are ergonomic issues being addressed for employees using computers or at risk				
Yes		No		NA		11.	Is a fully stocked first-aid kit available? Is the location known to all employees in the area?				
Yes		No		NA		12.	Are cabinets, shelves, and furniture over five feet tall secured to prevent toppling during earthquakes?				
Yes		No		NA		13.	Are books and heavy items and equipment stored on low shelves and secured to prevent them from falling on people during earthquakes?				
Yes		No		NA		14.	Is the office kept clean of trash and recyclables promptly removed?				
						_	Electrical Safety				
Yes		No		NA		15.	Are plugs, cords, electrical panels, and receptacles in good condition? No expose conductors or broken insulation?				
Yes		No		NA		16.	Are circuit breaker panels accessible and labeled?				
Yes		No		NA		17.	Are surge protectors being used? If so, they must be equipped with an automatic circuit breaker, have cords no longer than 15 feet in length, and be plugged directly into a wall outlet.				
Yes		No		NA		18.	Is lighting adequate throughout the work environment?				
Yes		No		NA		19.	Are extension cords being used correctly? They must not run through walls				
Yes		No		NA		20.	Are portable electric heaters being used? If so, they must be UL listed, plugged directly into a wall outlet, and located away from combustible materials.				
]		Append Januar	lix C1-O y 2016	ffice			d copies of this form should be routed to the department Safety Coordinator be maintained in department files for at least three years.				

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Appendix C2: University of California, Davis Laboratory Self-Inspection Checklist

Principal Investigator/Laboratory Supervisor:	
Laboratories Reviewed:	
Date:	
Reviewer:	Revised 1/2015

Α.	Chemical Hygiene Plan	Yes	No	N/A
	Does the laboratory have access to the campus-wide Chemical Hygiene Plan and all of the required elements?			
	2. Are there any operations that require prior approval before beginning (e.g, Radiation Safety, Bio-safety committee)?			
B.	Illness and Injury Prevention Plan	Yes	No	N/A
	 Does laboratory have access to Department IIPP and has it been reviewed in past year? 			
	2. Is there documentation that all laboratory personnel have trained on IIPP?			
C.	Standard Operating Procedures (SOP's)	Yes	No	N/A
	 Are there written SOP's covering the laboratory processes and hazardous chemicals referenced in Title 8 (<i>i.e.</i>, acutely toxic substances, reproductive toxins, and regulated carcinogens)? 			
	2. Are there exemptions to the written SOPs and are these documented?			
	3. Training of laboratory personnel documented.			
	 Required specialized training complete and documented. 			
	5. Training is current with Chemical Hygiene Plan.			
	6. Training is complete on Hazardous waste management.			
	 Training is complete on Blood borne Pathogen requirements. 			
П.	HAZARDOUS MATERIALS	Yes	No	N/A
	Laboratory doors are labeled with emergency contact notification names & numbers, hazards present & necessary precautions.			
	2. Labels are clean and intact on all chemical containers.			
	3. Chemical containers are clearly identified with contents and hazards.			
	4. Containers with non-hazardous substances (<i>i.e.</i> , water) clearly labeled to avoid confusion.			
Α.	Chemical Controls	Yes	No	N/A

Notes:			



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	1.	Chemicals are not stored on laboratory benches in excessive quantities.			
	2.	Expired or chemicals not used (for more than one year) are disposed of as hazardous waste.			
	3.	Secondary containment is provided for strong acids and strong bases.			
	4.	Incompatible chemicals are segregated and stored with compatible hazard classes.			
	5.	All chemical containers are closed, except when actively adding or removing materials from them (<i>i.e.</i> , no open funnels left in container).			
	6.	Containers of peroxide-forming chemicals are dated upon receipt and disposed of as hazardous waste within one year of receipt.			
	7.	Safety Data Sheets (SDS) and laboratory chemical inventory are up-to-date and readily available.			
	8.	Chemicals (liquids) are stored below eye level and not directly on the floor, unless in secondary containment.			
	9.	Dedicated chemical storage (cabinets, refrigerators, freezers) clearly labeled with contents and hazard warnings.			
B.	Fla	mmable & Combustible Liquids	Yes	No	N/A
	1.	Flammable liquids stored in 1-gallon or smaller containers or kept in 2-gallon or smaller safety cans.			
	2.	Flammable liquids (including flammable liquid waste) stored outside of a storage cabinet does not exceed 10 gallons.			
	3.	If more than 10 gallons of flammable liquids are present does the laboratory have an approved flammable storage cabinet?			
	4.	Flammable liquids, stored in flammable storage cabinets limited to 60 gallons per fire rated area.			
	5.	Flammable liquids requiring reduced temperature stored in flammable-rated refrigerator/freezer.			
C.	Pa	rticularly Hazardous Substances	Yes	No	N/A
	1.	Have all particularly hazardous substances been identified?			
	2.	Designated area(s) for acutely toxic materials, reproductive toxins and/or carcinogens clearly marked.			
	3.	Are all users adequately trained? Documentation available?			
	4.	All necessary PPE (personal protective equipment) available and used as needed.			
D.	Ra	dioactive Materials	Yes	No	N/A
	1.	Stock materials of radioactive materials are secured against unauthorized removal?			
	2.	Do personnel wear lab coats and gloves when handling radioactive materials? If assigned dosimeters, are they wearing them?			

	wearing them?	· ·		
Notes:				
				 Pg. 2



				UNIVERSITY OF
	3. Are all radioactive materials registered with the EH&S Health Physics Program?			
	4. Radioactive Waste – Properly labeled, segregated, and shielded?			
Ш.	CHEMICAL WASTE	•	•	
A.	Storage	Yes	No	N/A
	Are chemical waste containers properly segregated, sealed with tight-fitting caps and stored with EH&S Hazardous Waste Labels attached?			
	2. All hazardous chemical waste is arranged to be picked up by EH&S — not drain disposed or evaporated.			
	 Hazardous chemical waste has been accumulating for less than 270 days. Extremely hazardous waste has been accumulating less than 90 days. 			
	4. All hazardous chemical waste is secondary contained.			
	5. Training for personnel handling hazardous waste is documented?			
	6. EH&S is called for waste pick up when containers are full (90% capacity or full line) or have reached their accumulation date threshold.			
	 Waste containers sturdy, compatible with the waste, routinely checked for leaks and kept closed when not actively being filled. 			
B.	Labeling	Yes	No	N/A
	1. All hazardous waste containers have the proper labels with contents and accumulation start date.			
	2. The hazardous waste accumulation area is clean with waste containers clearly marked.			
IV.	BIOHAZARDOUS WASTE			
A.	Storage	Yes	No	N/A
	Solid bio hazardous waste is bagged in red polyethylene bags as per the Medical Waste Management Plan.			
	2. Bio hazardous liquid waste is managed per the Medical Waste Management Plan.			
	3. Sharps stored in puncture-proof containers and labeled appropriately, not past fill line.			
B.	Labeling	Yes	No	N/A
	Secondary containers for laboratory medical waste storage or transport labeled with the international biohazard symbol and the word "Biohazard."			
V.	PERSONAL HEALTH AND SAFETY			
A.	Food and Drink	Yes	No	N/A
	Sinks labeled "Industrial Water – Do Not Drink".			
	2. Food and drink is not permitted in laboratories.			
	3. Food and drink is stored only in refrigerators/freezers dedicated and labeled "for food only".			

	۱. Fo	od and Drink	Yes	No	N/A	
	1.	Sinks labeled "Industrial Water – Do Not Drink".				
	2.	Food and drink is not permitted in laboratories.				
	3.	Food and drink is stored only in refrigerators/freezers dedicated and labeled "for food only".				
otes:						



					UNIVERSITY
B.	Sta	andard Practices	Yes	No	N/A
	1.	Employees wash areas of exposed skin prior to leaving the laboratory.			
	2.	Sink is available and hands washed after removing gloves and before leaving laboratory.			
	3.	Cosmetic applications, taking medication, touching eyes, nose or mouth avoided in laboratory.			
VI.	Н	EALTH AND SAFETY EQUIPMENT			
Α.	Sa	fety Showers and Eye Washes	Yes	No	N/A
	1.	Approved safety showers and eye washes provided within 10 seconds travel time from the work area for immediate use, with no barriers (<i>i.e.</i> doors) for use or storage of corrosives.			
	2.	All eyewashes and showers have unobstructed access.			
	3.	Units inspected and activated monthly. Annually certification by Facilities Management for proper functioning.			
	4.	Sign indicating location of safety shower and eye wash unobstructed.			
В.	Pe	rsonal Protective Equipment	Yes	No	N/A
	1.	Has the correct PPE been selected based on a hazard assessment or SDS recommendation?			
	2.	PPE required for laboratory work: () Lab Coats,			
		() Safety glasses with side shields/goggles,() Hearing protection,() Face Shield,() Proper foot-wear,() Gloves,() Aprons			
	3.	All necessary equipment is available, in good condition, and properly used.			
C.	La	boratory Fume Hoods	Yes	No	N/A
	1.	Storage inside of hood is kept to a minimum.			
	2.	Equipment in use does not interfere with proper functioning of the hood.			
	3.	All work is done at least 6 inches inside hood.			
	4.	Front sash is lowered when hood is not in use.			
	5.	Certified annually by Facilities Management, semi- annually for Title 8 §5209 "listed" Carcinogens.			
	6.	Hood has continuous flow monitor.			
	7.	The back ventilation slot is not obstructed.			
	8.	Drains are protected from hazardous materials entering.			
D.	Bio	ological Safety Cabinet	Yes	No	N/A
	1.	Certified within the last year.			
	2.	Proper type of hood for work being conducted.			
	3.	Equipment is properly labeled for the hazard present (radiation, UV,), Manufacturer approved for hazard.			
	4.	Hood ducted per manufacturer and ASHRAE requirements and meets the bio-safety specifications.			

		•			1
	1.	Certified within the last year.			
	2.	Proper type of hood for work being conducted.			
_	3.	Equipment is properly labeled for the hazard present (radiation, UV,), Manufacturer approved for hazard.			
_	4.	Hood ducted per manufacturer and ASHRAE requirements and meets the bio-safety specifications.			
Notes	:				
				Г	Pg. 4
		23			-



Ε.	Con	npressed Gas Cylinders	Yes	No	N/A
		Cylinders stored in well protected, well vented and dry locations away from combustible materials.			
	2.	Flammable gases stored away from oxidizers.			
		Cylinders are secured to a rigid structural component of the building with non-flammable restraints located 1/3 and 2/3 (preferred) or ½ the height of the cylinder.			
		Protective caps in place while cylinders are in storage and full/empty tags attached.			
		Proper regulators are being used and closed when cylinders are not in use.			
F.	Ηοι	usekeeping & Miscellaneous Laboratory Safety	Yes	No	N/A
		Bench tops clean, organized and environs maintained to eliminate harmful exposures or unsafe conditions.			
		Supplies stored at minimum of 24 inches from ceiling and off the floor.			
		Vacuum lines equipped with traps designed specifically to accumulate/filter the hazardous materials being evacuated.			
		All moving machinery (<i>i.e.</i> , vacuum pumps) belts adequately protected by a rigid belt guard or housing.			
	5.	All sharps disposed properly.			
		The condition of the broken glass box is adequate and placed out of the way.			
	7.	Ceiling tiles present and in good condition.			
	8.	Refrigerators/freezers labeled according to use.			
G.	Elec	ctrical Safety	Yes	No	N/A
		High voltage equipment (>600V) labeled, grounded and insulated.			
	2.	No equipment has damaged or frayed cords.			
	3.	Extension cords are not connected together.			
		Power strips used only if they are equipped with circuit breakers.			
	5.	All equipment is grounded via 3-prong plugs.			
	6.	Damaged equipment tagged out to prevent use.			
H.	Ger	neral Safety	Yes	No	N/A
	1.	Cabinets and bookshelves are secured.			
		Overhead storage is minimized and restrained from falling (i.e., shelf lips, rails).			
		Heavy equipment is secured or braced from falling.			

I. Respiratory Protection	Yes	No	N/A
Use of respiratory protection conforms to UC Davis Policy.			
2. Respirators are inspected monthly and before use.			

Notes:			



					UNIVERSITY
	3.	The user has been fit tested by the Occupational Health Services.			
	4.	Cartridges are changed on designated schedule and are the appropriate cartridge for the hazard.			
J.	La	ser Safety	Yes	No	N/A
	1.	Does the laboratory use any Class 3b or 4 lasers?			
	2.	Are the lasers registered with EH&S Health Physics Program?			
	3.	Are the Standard Precautions for lasers prominently posted for each laser?			
	4.	Are appropriate warning signs and labels posted?			
	5.	Does the laboratory entrance have a warning light or lighted sign showing when the laser is in use?			
	6.	Have all workers attended the EH&S Laser Safety course?			
	7.	Does the laboratory have appropriate laser eyewear?			
K.	No	n-Ionizing Radiation (NIR) Source	Yes	No	N/A
	1.	Have proper warning signs been posted?			
L.	En	nergency Planning & Procedures	Yes	No	N/A
	1.	Emergency Response Guide and evacuation map visibly posted and current.			
	2.	Chemical spill kit/cleanup materials available.			
	3.	Training in spill clean-up procedures provided and documented.			
	4.	First aid materials kept in adequate supply (in a sanitary and usable condition) and made readily available.			
M.	Fir	e Prevention	Yes	No	N/A
	1.	Appropriate fire extinguisher mounted, unobstructed, available within 75 feet, in working order and inspected within the last year. A fire extinguisher should be available in a room containing flammable and/or combustible liquids.			
	2.	Fire extinguisher sign is clearly visible.			
	3.	18-inch vertical clearance maintained from sprinkler head (<i>i.e.</i> , over shelving).			
	4.	Are all laboratory doors kept closed? Closure devices in place?			
	5.	Storage of combustible material is minimized.			
N.	Ex	its	Yes	No	N/A
	1.	Exits and aisles are clear and free of obstructions in case of emergency.			
	2.	Exit signs clearly visible.			

Notes:_			

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Appendix D - Injury and Illness Investigation Form

Please access the **Injury Reporting Procedure** page on the Safety Services website.

http://safetyservices.ucdavis.edu/article/injury-reporting-procedure

Complete the electronic **Employer's First Report** as soon as practicable.

	UCD Employan's Do		f Oggannatie	anal Ini		Illmoss		
UNIVERSITY POLICY	UCD Employer's Re	Y/ILLNES	S BE REPORT	TED TO WO	ORKERS	COMPE	ENSAT	ION WITHIN 24 HOURS OF
OCCURRENCE AND S	TATE REGULATIONS REQUIRE THAT injury or hospitalization, call Workers' Co	ALL ACC	CIDENTS BE IN	VESTIGATI	ED.			
mailed or faxed (530) 75	2-3439 to Workers' Compensation. Omi-							
Employee Name:	OMPLETE THESE SECTIONS:		TE	mployee's l	JCDavis	ID #:		
Address:				X 20				
Address.			Пн	lome Phone	: ()		
City/State/Zip:			Sex: □Fem	nale	ale	Date of	Birth:	
Department/Location	n:			mployee's \			- 1	
Payroll Title/TC:		Date	of Hire:	mpioyee's v	VOIK PIL	Annua	Gross	Salary:
Supervisor's Name:						\$		
ш			Superviso	or's Work Ph	none: ()		
Employee () Volu	inteer () Student-Employee ())hours per day		days pe	r week) total weekly hours
Specific Injury/Illnes	s/Exposure:		Body	Part(s) affe	cted:		Date	of injury/illness:
Location where injur	y or illness occurred:					Other	Interes	d2 DVac DNa
What equipment, ma	aterials or chemicals caused the injury/illn	ess?:				Who	vitness	d? □Yes □No ed this injury?
What equipment, ma	the injury occurred. Include specific activ	/ities/task	s performed at t	the time.				u
H H								
Medical Treatment p Employee Healt Private Physicia		P	Other: (Provide	Name & Ph	none #)			
Private Physicia	UC Davis Medical Cent	er	- Trovido					
Employee Signature	dical care needed.				Today's	s Date:		
EMPLOYEDIO INVE	TIGATION AND OTATEMENT (FIN	DI OVE	D COMPLETE	.0.				
After the investigation	STIGATION AND STATEMENT (EM on, explain in detail how the injury/illness				a perfor	med:		
OYER								
O O								
5	illness or exposure?							
INITIAL CAUSE	CONTRIBUTING FACT	ORS AN	D ACTIVITIES				PREVI	ENTIVE ACTIONS
Struck by or	Equipment		☐ Ventilation is			UPERVIS	OR WI	LL:
against object (indicate)	☐ Equipment failure ☐ Equipment unavailable	Employ	☐ Ergonomic t			update I	/revise IPP or	safety procedures and Chem. Hyg. Plan
	☐ Improper equipment or material used for job		yee Physically not at Employee fatigu	ble to do wo	rk		ergon	omic evaluation
Caught in/under/	Personal protective equipment		Unbalanced or p			Order ne	w pers	onal protective equipment
☐ Fall / Slip / Trip ☐ Material handling	☐ Not worn ☐ Not readily available		or motion Incorrect proced	lures used fo	or 🗆	Remove repair/re	equip	ment from use and
or lifting	☐ Not adequate for the task	_	task			Schedul	e preve	entive maintenance
☐ Repetitive motion ☐ Chemical	☐ Personal protective equipment failure	Assista			1.7	re-assign	ned.	oloyee before task is
exposure	Training/Experience ☐ Lack of training		Difficult to perfor without help	m task	-			review of work activity, ty analysis.
Body fluid exposure:	 Safety training provided, not 	l 🗆 :	Safety features of	or devices n		Reconfig	jure we	ork area
Needle stick	followed New task for employee or lack		readily available Assistive device:	s not used	-	in job ca	nicate	corrective actions to others
☐ Animal bite	of experience Work Area	☐ Lac	k of policy/prod mal (explain belo	cedure	=	Other	- 3 - 1	
Other, Explain		Oth	er (explain)	OW)	[-			
	 Inadequate lighting or noise issues 	1			_ PI	reventive ame	action	is will be completed by:
	☐ Housekeeping issues ☐ Environmental factors						ate of	completion
	(rain, wind, temp. etc)	Use ad	ditional pages	as needed				
SUPERVISOR'S OR MA	ANAGER'S SIGNATURE:					Dat	e of In	vestigation:
DEPARTMENT HEAD'S	S SIGNATURE:					Dat	e:	
	HIS FORM IS NOT AN ADMISSION OF UNIVERSITY	LIABILITY					7	/2011 ER: WC/H/MJB
IIPP-Appendix I January 2016	'							

Appendix E: Safety Training Attendance Forms

- 1) Chemical Hygiene Plan (CHP) Site Specific Orientation and Training Form for New Personnel
- 2) Hazardous Communication Program (HazCom) Site Specific Orientation and Training Form for New Personnel
- 3) Annual Refresher Group Training for All Laboratories



Site-Specific Safety Orientation & Training for New Laboratory Personnel

Revised - 07/2014

Prior to completing this site safety orientation and training, all laboratory personnel must have successfully completed the <u>UC Laboratory Safety Fundamentals</u> course. Completion of this training is required prior to personnel being granted unescorted access to the laboratory. This serves to satisfy components of the <u>University of California Policy - Laboratory Safety Training</u> and UC Davis policy <u>PPM290-56</u>.

l		confirm receipt of training on the listed topics on					
	(print name, trainee)						
	from	All of my questions regarding					
(da		ne, trainer)					
this mate applicab	•	eve been initialed, or marked with an "X" where not					
	(signature, trainee)	(signature, trainer)					
Initial	Topic	Action					
	EMERGE	ENCY PROCEDURES					
	Fire Alarm Pull Station:	Show location(s) and proper activation.					
	Eye Wash / Safety Showers:	Show location(s) and proper operation.					
	Spill Procedures	Show location of spill kit(s), SafetyNets #13 and #127 (if applicable), and describe procedures.					
	First Aid Kits:	Location(s) and description of contents.					
	Phone:	Location(s), detail dialing instructions, '911' dialing instructions, bomb threat card. Location(s) of flipchart guide, discuss scenario actions					
	Emergency Response Guide:						
	Emergency Action Plan:	Review Emergency Action Plan. Demonstrate both paths to Emergency Assembly Area. Review evacuation procedures for disabled employees if applicable.					
	Warn Me:	Enroll in UC Davis Warn Me emergency alert system, recommend registering cellular phone number.					
	ENGINE	EERING CONTROLS					
	Chemical Fume Hood(s):	Demonstration of proper use, instruction on adjustable controls, flow sensor function, and training requirements.					
	Biological Safety Cabinet(s):	Demonstration of proper use, instruction on adjustable controls and training requirements.					
	Chemical Storage Location(s):	Location(s) and segregation rules, volume limits (>10 gallons requires flammable storage cabinet).					
	Other Controls (<i>e.g.</i> , Glove Boxes, Snorkels, Gas Cabinets, Paint Booths, Laminar Flow Benches):	Demonstration of proper use, instruction on adjustable controls.					
	Describe in detail:						



	RATIVE CONTROLS	
Laboratory Safety Manual (incl. Chemical Hygiene Plan):	Location and content description. Also, any applicable Laboratory Safety Plan(s) location and content.	
Safety Data Sheets (SDSs):	Demonstrate electronic access and describe laborato repository of hard copy SDSs, if applicable	
Standard Operating Procedures (SOPs):	Location of lab's SOPs, describe required approvals. Identification of chemical processes / areas requiring specific SOP use, and laboratory safety rules.	
Describe in detail:		
PERSONAL PI	ROTECTIVE EQUIPMENT	
Determine Hazard-Specific Safety Training:	Consult <u>UC Davis Training Matrix for Laboratory</u> <u>Personnel</u> , enroll in courses	
	Provide at no cost fitted laboratory coats. Some labs/hazards require flame resistant coats.	
Lab Coat:	Type: □ Cotton/Blend □ Barrier □ Flame Resistant	
	Size:	
Eye Protection:	Provide at no cost pair(s) of safety eyewear. Glasses must fit appropriately, be comfortable to wear, and sta securely in place. For labs where goggles must be we provide pair(s) of fitted chemical splash goggles. Whe a face shield is required, demonstrate proper use, care and storage.	
	 Corrective Prescription Y / N 	
	Model:	
Gloves:	Location(s), provide knowledge and resources to selectorrect type. Instruct proper procedure to don and do	
	OTHER	
Department IIPP:	Location and review	
Hazardous Waste:	Overview of laboratory hazardous waste procedures. Location(s) of accumulation area, demonstrate proper labeling, describe proper storage requirements, and detail pickup/removal procedures.	
Specialized Equipment:	Review of safety procedures for proper operation. e.g UV light, laser, high voltage equipment, superconduct magnets, cryogen handling, high/low vacuum, etc	
Describe in detail:		



Site-Specific Safety Orientation & Training for New Personnel (HazCom Spaces)

Supervisor or Designated Trainer: Review and select topics below that are applicable to the employee/trainee. Mark programs with an "X" if applicable or "NA" if not applicable. Add additional topics/programs under the "Other" column. Campus-wide applicable topics are identified with an "X". Review identified topics with trainee and provide or schedule training. <u>Training must be completed **prior** to trainee engaging in hazardous tasks.</u> Enter initial and date in "Trainer Initial/Date" column upon completion of training. Retain record for at least three years.

Employee/Trainee: Review applicable topics with Supervisor or Designated Trainer. Enter initial and date in "Trainee Initial/Date" column once training is completed. Initial and date only if your questions regarding the material have been completely answered.

Trainee		
(Print Name/ Signature/Date)	Department	
Supervisor/Trainer		
(Print Name/Signature/Date)	Supervisor/Trainer Job Title	

	Trainee			
Applicable	Initial	Topic	Action	
		E	MERGENCY PROCEDURES	
Х		Emergency Action Plan	Review Emergency Action Plan. Demonstrate both paths to Emergency Assembly Area.	
Х		Emergency Response Guide	Location(s) of flipchart guide, discuss scenario actions.	
Χ		Fire Alarm Pull Station	Show location(s) and proper activation.	
Χ		Injury Reporting	Review immediate reporting of work-related injuries and illnesses to supervisor. Use online injury reporting form.	
Χ		Phone	Location(s), detailed dialing instructions, '911' dialing instructions, bomb threat card.	
Χ		Warn Me	Enroll in UC Davis Warn Me emergency alert system, recommend registering cellular phone number. https://warnme.ucdavis.edu/	
Χ		Eye Wash/Safety Shower	Show location(s) and proper operation.	
Χ		First Aid Kits	Location(s) and description of contents.	
Χ		Spill Procedures	Show location of spill kit(s), SafetyNets #13 and #127 (if applicable), and describe procedures.	
			PROGRAMS	
Х		Injury and Illness Prevention Program (IIPP)	Review content and location of IIPP; emphasis on annual review of Job Safety Analysis, injury and hazard reporting and training documentation.	
		Confined Space Entry (CSE)	Review <u>Cal/OSHA requirements</u> . Show confined space 'permit-required' locations, train on proper completion of the CSE permit and use of equipment and personal protective equipment (PPE).	
		Crane operation, hoisting and rigging	Per <u>Cal/OSHA</u> only <i>qualified employees</i> and trained employees can operate cranes and need training on <u>Indoor Hoisting and Rigging</u> . Review <u>Cal/OSHA operating rules</u> .	
		Electrical Safety	Complete <u>Electrical Safety</u> training; requirements for lockout and verification testing of energized equipment; if working "hot", proper use of arc-rated clothing/PPE based on an NFPA 70e arc-flash assessment; and shock hazard analysis insulated tools.	
	_	<u>Ergonomics</u>	Train employee on proper body mechanics	



	Trainee				
Applicable	Initial	Topic	Action		
		Fall Protection	Review the <u>Cal/OSHA requirements</u> . Training on proper inspection, use and wear of harnesses, lanyards for restraint, positioning or arrest. Review identified compliant anchorage locations, areas requiring proper use of beam wraps, and connections to existing SRL's, existing vertical/horizontal lifelines, overhead systems, or cable/rope grabs.		
		Forklift and Aerial Lift Operations	Review required use of written pre-use inspection (forklift & aerial lift) and site assessment (aerial lift) forms. Training must include lecture and practical 'hands on' demonstration of skills.		
		Hazard Communication Program	General HazCom Program location and content description. Department-Specific HazCom Program Summary location and content. Demonstrate electronic SDS access and describe repository of hard copies, if applicable. Maintain chemical inventory in CIS.		
		Hearing Conservation	Employees exposed at or above a time-weighted average of 85 dBA must participate in the Hearing Conservation Program		
		<u>Heat Illness</u>	Train employees who work outdoors on heat illness prevention		
		Lockout/Tagout	For employees 'authorized' to work on energized equipment, show the energy isolation, lockout locations for equipment, review <u>Cal/OSHA</u> <u>requirements</u> for lockout, and review of written lockout/tagout procedures.		
		Operating Tractor	Review the operating rules and for hands on training.		
		Shop Safety Program	Review and train on the <u>Shop Safety Manual</u> , the site specific <u>Shop Safety Plan</u> , and equipment SOPs.		
		Welding and Cutting	Review the 72 hour <u>hot work permit requirements</u> . Provide <u>Cal/OSHA</u> <u>compliant ventilation</u> and respiratory protection as needed.		
		Other (describe)			
		PERSO	ONAL PROTECTIVE EQUIPMENT		
Х		Hazard Assessment	Review completed Job Safety Analysis (JSA) as per IIPP. See <u>JSA/PPE</u> <u>Certification Forms</u> .		
		PPE Certification	If PPE is identified in JSA, compete and review PPE certification form; provide properly fitted PPE; demonstrate proper selection, use, care and storage.		
		Specific PPE	Protection for: □Head □Eye/Face □Body □Lungs □Upper Extremity □Lower Extremity □List Specific PPE:		
			OTHER		
		<u>Chemical Fume</u> <u>Hood</u> (s)	Demonstrate proper use, instruction on adjustable controls, flow sensor function, and training requirements.		
		Chemical Storage Location(s)	Location(s) and segregation rules, volume limits (>10 gallons requires flammable storage cabinet).		
		Compressed Gas Cylinders	Storage locations, regulators, transport, safety considerations.		
		Glass & Sharps Waste Containers	Location(s) of accumulation area, demonstrate proper labeling, describe proper storage requirements, and detail pickup/removal procedures.		
		Hazardous Waste	Overview of <u>WASTe</u> and hazardous waste procedures. Location(s) of accumulation area, demonstrate proper labeling, describe proper storage requirements, and detail pickup/removal procedures.		
		Needle sticks	Train on needle and syringe safety (SafetyNet #62)		
		Specialized Equipment	Review safety procedures for proper operation. <i>e.g.</i> , UV light, laser, high voltage equipment, autoclave, cryogen handling. List specialize equipment:		

University of California, Davis Department of Mechanical and Aerospace Engineering

ANNUAL AND INITIAL SAFETY TRAINING ATTENDANCE RECORD

Instructor:	Location:	Date:	Time:	Length:
	ZOOM ID:			45 mins

We are legally required to maintain records regarding our safety training activities. Please assist us by providing the information indicated below to document your attendance. Thank you.

Topics Covered in Training:

I. Injury and Illness Prevention Plans

- ✓ The general contents of department IIPPs
- ✓ My right to ask any question, or report any safety hazards, either directly or anonymously without any fear of reprisal.
- ✓ The location of departmental safety bulletins and required safety postings.
- ✓ Reporting safety concerns.
- ✓ Accessing the department safety coordinator.
- ✓ Reporting occupational injuries and illnesses.

II. Mazard Communication Training

- ✓ The potential occupational hazards in the work area associated with my job assignment.
- ✓ The safe work practices and personal protective equipment required for my job title.
- ✓ The location and availability of Material Safety Data Sheets (MSDS).
- ✓ The hazards of any chemicals to which I may be exposed, and my right to the information contained on SDSs for those chemicals.

III. Emergency Action Plan (EAP)

- ✓ Emergency escape routes and procedures and Emergency Assembly Area (EAA)
- ✓ How to report a fire and other emergencies.
- ✓ Names or regular job titles of persons to be contacted for further information.

IV. Guidelines for Chemical Spill Control and Waste Disposal (Safety Nets 13, 16, 8, 43)

- ✓ Chemical Hygiene Plans
- ✓ Proper response procedures for chemical spills.
- ✓ Proper approach to chemical waste disposal.

Name (Please Print)	Email (@UCDAVIS.EDU)	Signature	PI/Supervisor
1.			
2.			
3.			
4.			
5.			
6.			

University of California, Davis Department of Mechanical and Aerospace Engineering

Name (Please Print)	Email (@UCDAVIS.EDU)	Signature	PI/Supervisor
7.			
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29.			
30.			

LABORATORY INJURY OR EXPOSURE

EMPLOYEES

(Getting paid by UC at time of injury)

Occupational Health Medical Clinic

530-752-6051

WEEKDAYS

8 a.m. - 5 p.m. (closed 12 - 1 p.m.)



WEDNESDAY

9 a.m. - 5 p.m. (closed 12 - 1 p.m.)



Scan for location

STUDENTS

(Not getting paid by UC at time of injury)

Student Health and Wellness Center

530-752-2349 *(24-hour advice & counseling)*

During Quarter:

WEEKDAYS 8 a.m. – 5:30 p.m.

WEDNESDAY

9 a.m. - 5 p.m.



Scan for seasonal hours

EVERYONE ELSE

Go to your personal medical provider.

AFTER HOURS AND IMMEDIATE TREATMENT FOR EVERYONE

Davis Urgent Care

530-759-9110

OPEN 365 DAYS A YEAR

8 A.M. - 8 P.M.

4515 Fermi Place #105 (Across from Target)

Sutter Emergency Room

530-757-5111

OPEN 24 HOURS

2000 Sutter Place

NOTICES

Explain Exposure: Be prepared to communicate exposure details (e.g., chemical name, biohazard) to medical providers.

Transportation: Arrange an escort when possible. For non-emergencies, you may use a personal vehicle instead of taking an ambulance.

Report: Work related injury/illness claims should be filed as soon as possible at *ehs.ucop.edu/efr*