INJURY AND ILLNESS PREVENTION PROGRAM

UNIVERSITY OF CALIFORNIA, DAVIS

Mechanical and Aerospace Engineering



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, Davis,

Department: Mechanical and Aerospace Engineering

This written program is in accordance with UC Davis Policy (<u>Policy and Procedures Manual Section 290-15: Safety Management Program</u>) and California Code of Regulations Title 8, Section 3203 (<u>8CCR§3203: Injury and Illness Prevention Program</u>).



TABLE OF CONTENTS

Preface	4
Buildings Occupied by Department	4
I. Authorities and Responsible Parties	5
II. System of Communication	6
III. System for Assuring Employee Compliance with Safe Work Practices	7
IV. Hazard Identification, Evaluation and Inspection	8
V. Accident Investigation	10
VI. Hazard Correction	11
VII. Health and Safety Training	12
VIII. Recordkeeping and Documentation	13
IX. Resources	14
X. Completed Tasks	15



PREFACE

DEPARTMENT NAME: Mechanical and Aerospace Engineering

DEPARTMENT DIRECTOR: Dr. Benjamin Shaw

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

DEPARTMENT TELEPHONE NUMBER: 530-752-0580

BUILDINGS OCCUPIED BY DEPARTMENT

1. Building: Bainer Hall and Wind Tunnel Building

Unit(s): Administration, Research and Teaching

Contact: Krasen Kovachev | Felicia Smith | Henry Grace

Phone: 530-752-8488 | 530-752-0582 | 530-754-1346

2. Building: Academic Surge Building

Unit(s): Administration, Research and Teaching

Advanced Highway Maintenance and Construction Technology Research Center (AHMCT)

Contact: Dave Torick | Krasen Kovachev | Felicia Smith

Phone: 530-752-5579 | 530-752-8488 | 530-752-0582

3. Building: ATIRC

Unit(s): Advanced Transportation Infrastructure Research Center (ATIRC)

Contact: Dave Torick | Krasen Kovachev | Felicia Smith Phone: 530-752-5579 | 530-752-8488 | 530-752-0582

4. Building: Spafford

Unit(s): Center for Spaceflight Research (CSFR)

Advanced Materials Research Laboratory (AMRL)

Contact: Krasen Kovachev | Chibuike Agba | Felicia Smith

Phone: 530-752-8488 | 301-679-8622 | 530-752-0582



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</u>: <u>Safety Management Program</u>) and California Code of Regulations (<u>8CCR, Section 3203</u>) and is held by the following individuals:

1. Responsible Authority

Name: Dr. Benjamin Shaw

Title: Department Chairperson

Authority: Authority and responsibility for **ensuring** implementation of this IIPP

DocuSigned by:

Signature: Buyamin Shaw Date: 4/13/2023

2. Department Designated Authority

Name: Krasen Kovachev

itle: Department Safety Coordinator

Authority: Given by Responsible Authority for implementation of this IIPP

DocuSigned by:

Signature: trasur tovadur Date: 4/13/2023

All Principal Investigators/supervisors/managers are responsible for the implementation and enforcement of this IIPP in their areas of responsibility in accordance with University Policy (<u>UCD Policy & Procedure Manual Section 290-15: Safety Management Program</u>).



II. SYSTEM OF COMMUNICATION

Effective communications with employees have been established using the following methods.
 Check all boxes that apply, list additional department methods in space provided.

Х	Standard Operating Procedures Manual
Х	Safety Data Sheets
П	Monthly departmental operations meetings
Х	Internal media (department intranet)
Х	EH&S Safety Nets
Х	Training videos
	Safety Newsletter
Χ	Handouts
Х	Building Evacuation Plan
Х	E-mail
Х	Posters and warning labels
X	Job Safety Analysis
Х	Departmental Website
X	Other (list): MAE Departmental Safety Training provided initially and then annually, as a refresher.

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 or emailed to them. Employees have the option to remain anonymous when making a report.

Safety bulletin board located next to DSC's office, 2101 Bainer Hall



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 (PPE). Conformance will be reinforced by discipline for non-compliance in accordance with University policy (<u>UC Davis Personnel Policies for Staff Members- Section 62</u>, 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, and 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.

Does your department use any additional methods for assuring employee compliance with safe work practices?

YES NO X



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, PPE, 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 <u>Laboratory Hazard Assessment Tool</u>
- Non-Laboratory personnel, please refer to the <u>JSA/PPE Certification Forms</u>
 (Example JSAs are located in Appendix B1 and Appendix B2 of this template)

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 and Teaching Laboratories

Frequency: Annual

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

Records Location: Electronic and/or Lab Safety Binders

2) Location: Off-Campus Research Laboratories

Frequency: Annual

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

Records Location: Electronic and/or Lab Safety Binders

3) Location: On-Campus Administrative Units

Frequency: Annual

Responsible Person: EH&S and Fire Safety, Lab PI, or Dept Safety Mngr

Records Location: Electronic and/or Lab Safety Binders



Worksite Inspections Continued

4) Location: Off-Campus Administrative Units

Frequency: Annual

Responsible Person: EH&S and Fire Safety, Lab PI, or Dept Safety Mngr

Records Location: Electronic and/or Lab Safety Binders

Worksite Inspection Forms

- C1 General Office (Available in Appendix C)
- C2 <u>Laboratory</u>



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.

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

- 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. Injury reporting procedures
 can be found at the Safety Services Website: Injury Reporting.
- 2. The <u>Injury and Illness Investigation Form</u> (see 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. Departments must notify EH&S immediately if there is any possibility an employee has been seriously injured. Please refer to EH&S SafetyNet 121 for further information.
 - Immediately: As soon as practically possible, but no longer than eight hours after the
 employer knows, or with diligent inquiry, would have known of the death of serious
 injury or illness
 - Serious injury or illness: Any injury or illness occurring in a place of employment, or in connection with employment, which required inpatient hospitalization for other than medical observation or diagnostic testing, or in which an employee suffers and amputation, the loss of an eye, or any serious degree of permanent disfigurement, but does not include any injury, illness, or death caused by an accident on a public street or highway, unless the accident occurred in a construction zone.



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 PPE 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 (Appendix A)</u> 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.

Does your department have any additional Hazard Correction Procedures?

YES NO X



VII. HEALTH AND SAFETY TRAINING

Health and safety training, covering both general work practices and job-specific hazard training is the responsibility of:

Dr. Benjamin Shaw

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 <u>Safety Training Attendance Record</u> form is located in <u>Appendix E</u>.



VIII. RECORDKEEPING AND DOCUMENTATION

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

MAE Intranet and/or DSC office (2101 Bainer Hall)

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

- 1. Hazard Alert/Correction Forms (Appendix A form). Retain for three years.
- 2. Employee <u>Job Safety Analysis form</u> (Example JSA's in Appendix B).
- 3. Worksite Inspection Forms (Appendix C form). Retain for three years.
- 4. Injury and Illness Investigation Forms (see Appendix D). Retain for three years.
- 5. Employee Safety Training Attendance Records (Appendix E form). Retain for three 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

Campus COVID-19 Prevention Plan

6. Does your department have any additional resources?

YES X NO

Departmental website, safety section: https://mae.ucdavis.edu/safety Safety bulletin board located next to the DSC's office, 2101 Bainer Hall





X. COMPLETED TASKS

All tasks are required to be addressed in order to submit this E-IIPP for approval:				
JSA Reviewed:	YES	х	NO	
Annual Worksite Inspection completed:	YES		NO	х
IIPP Reviewed:	YES	х	NO	
Annual IIPP Training completed:	YES		NO	х

Safety inspections usually done around July

By the end of May 2023 for MAE office staff, or as needed

Approve Well done Krasen!

HAZARD ALERT / CORRECTION FORM

Alert Identification No Department:
I. Unsafe Condition or Hazard
Name: (optional) Job:
Title: (optional)
Location of Hazard:
Building: Room: 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 hazard:
Results of investigation (What was found? Was condition unsafe or a hazard?): (Attach additional sheets if necessary.)
Proposed action to be taken to correct hazard or unsafe condition: (Complete and attach a Hazard Correction Report)
Signature of Investigating Party: Date:

IIPP-Appendix A January 2022

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 conjunction with the "Hazard Alert Form" as appropriate, to track the correction of identified hazards.					
All hazards should be corrected as soon as possible, based on the severity of the hazard. If a serious imminent hazard cannot be immediately corrected, evacuate personnel from the area and restrict access until the hazard can be addressed.					
Supervisor/Safety Coordin	ator Name: _		Telephone: _		
Supervisor/Safety Coordin	ator Signature: _		_ Date:		
Description and	Date	Required Action and	Complet	tion Date	
Location of Unsafe Condition	Discovered	Responsible Party	Projected	Actual	

IIPP–Appendix A January 2022 Completed copies of this form should be routed to the department Safety Coordinator and kept in department files for at least three years.



Instructions:

- 1. Select assessment category.
- 2. List tasks/activities: Develop a list of activities, tasks, equipment/tools (group similar tasks/activities).
- 3. Identify and list potential hazards: for each task, activity or equipment/tools, list and describe the potential hazards.
- 4. Identify and list controls: for each task, activity, equipment/tools, document controls (i.e. training, equipment, written procedures, PPE...).
- 5. If PPE is required, complete Part II- PPE Hazard Assessment and Certification.
- 6. Train affected employees on the final assessment and document the training.

Repeat assessment when new hazards are identified or introduced into the workplace or at least every three (3) years. Laboratory workers must use the online <u>Laboratory Hazard Assessment Tool (LHAT)</u> for PPE hazard assessment.

l am	☐ A worksite		Specify location:		
reviewing	☐ A single emplo	yee's	Name of employee:		
(check the appropriate box) Job description ✓ A job description for a class of employees		•	Position title:		
			Position titles: Administrative personnel		
		Location: Business Off			
	Hazard Evaluator		Signature/Date:		
TAG	(/ A CTI) //TV	200	TENTIAL HAZADO	CONTROL	PPE Required?
	(/ACTIVITY	PO	TENTIAL HAZARD	CONTROL	Y/N
General office	work		n, eyestrain, repetitive	Ensure that workstations are	No
			jury. Physical injuries	ergonomically correct. Keep floors	
			ps, trips and falls, and	clear of debris and liquid spills.	
			jects. Electrical hazards.	Keep furniture, boxes, etc. from	
		-	njuries due to fires,	blocking doorways, halls and	
		-	kes, bomb threats and	walking space. Do not stand on	
		workplac	e violence.	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. 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. All	
				personnel to receive annual	
				training to the Emergency Action	
		7		Plan (EAP) and Injury and Illness	
				Prevention Plan (IIPP).	
Operation of r	notor vehicles	Motor ve	hicle accidents involving	All drivers of University vehicles	No
		personal	injury, or property	must possess a valid California	
		damage.		drivers license and receive the	
				Driver Safety Awareness Course	
				offered by Fleet Services during	
				the first 6 months of employment	
				and renewed every three years.	
				Hazardous materials may not be	
				transported in personally owned	
				vehicles.	

JHA, Version 1.0, November 2014 Page 1 of 2



Training Record

Designated Trainer: (signature is required)

I have read and acknowledge the contents, requirements, and responsibilities outlined in this document:

Name	Signature	Date

JHA, Version 1.0, November 2014 Page **2** of **2**



Instructions:

- 1. Select assessment category.
- 2. List tasks/activities: Develop a list of activities, tasks, equipment/tools (group similar tasks/activities).
- 3. Identify and list potential hazards: for each task, activity or equipment/tools, list and describe the potential hazards.
- 4. Identify and list controls: for each task, activity, equipment/tools, document controls (i.e. training, equipment, written procedures, PPE...).
- 5. If PPE is required, complete Part II- PPE Hazard Assessment and Certification.
- 6. Train affected employees on the final assessment and document the training.

Repeat assessment when new hazards are identified or introduced into the workplace or at least every three (3) years. Laboratory workers must use the online <u>Laboratory Hazard Assessment Tool (LHAT)</u> for PPE hazard assessment.

I am ☐ A worksite			Specify location:			
reviewing	☐ A single emplo	yee's	Name of employee:			
(check the	job description	•	Position title:			
appropriate A ich description for a		Position titles: Health a	and Safety Specialists			
box)	class of emplo		Location: Industrial Saf			
	Hazard Evaluator	,	Signature/Date:			
TAC	V/ACTIVITY	D0	TENTIAL HAZADO	CONTROL	PPE Required?	
IASI	K/ACTIVITY	PO	TENTIAL HAZARD	CONTROL	Y/N	
	poratories containing	•	to chemicals via	Avoid all unnecessary exposures.	Lab coat,	
chemicals.			n, contact, ingestion or	Reduce exposures that cannot be	protective	
		injection.		avoided by minimizing exposure	eyewear.	
				duration and concentration.	Gloves and	
				Proper selection and use of	respiratory	
				personal protective equipment	protection	
				including gloves, protective	as needed	
				eyewear, lab coats, and in some		
				instances respiratory protection.		
				Implementation of proper personal		
				hygiene habits, including washing		
				hands before eating. All personnel		
				to receive on the job and		
				classroom training including UC		
				Lab Safety Fundamentals,		
				Hazardous Waste Management		
				and Minimization and other		
				applicable courses. This will be		
				completed during the first 6		
				months of employment and		
				renewed every three years.		
	poratories containing		to radiological agents via	Avoid all unnecessary exposures.	Lab coat,	
radiological m	naterials.		n, contact, ingestion or	Reduce exposures that cannot be	protective	
		injection.		avoided by minimizing exposure	eyewear.	
				duration and concentration.	Gloves and	
				Proper selection and use of	respiratory	
				personal protective equipment	protection	
				including gloves, protective	as needed	
				eyewear, lab coats, and in some		
				instances respiratory protection.		
				Implementation of proper personal		
				hygiene habits, including washing		
				hands and face before eating. All		
				personnel to receive on the job		
				and classroom training including		
				UC Lab Safety Fundamentals,		
				Hazardous Waste Management		

JHA, Version 1.0, November 2014 Page 1 of 5



		and Minimization, Radiation Safety	
		and other applicable courses. This	
		will be completed during the first 6	
		months of employment and	
		renewed every three years.	
Working in laboratories containing	Exposure to biological agents via	Avoid unnecessary exposures.	Lab coat,
biological materials.	inhalation, contact, ingestion or	Proper selection and use of	protective
	injection.	personal protective equipment	eyewear.
		including gloves, protective	Gloves and
		eyewear, lab coats, and in some	respiratory
		instances respiratory protection.	protection
		Proper adherence to bloodborne	as needed
		pathogen handling protocols.	
		Implementation of proper personal	
		hygiene habits, including washing	
		hands before eating. Voluntary	
		participation in Hepatitis B	
		vaccination program. Proper	
		adherence to biological waste	
		handling procedures. All personnel	
		to receive Bloodborne Pathogen	
		Program training during the first 6	
		months of employment and	
		renewed annually. Participation in	
		Facilities- specific medical	
		clearances as required.	
Working in laboratories, shops and	Injury from physical hazards	Avoid unnecessary exposures.	Lab coat,
spaces containing physical hazards.	including high voltage, lasers and	Proper selection and use of	protective
	ultraviolet light, compressed gases	personal protective equipment	eyewear.
	and liquids, cryogenic materials,	including gloves, protective	Gloves,
	and specialized equipment as well	eyewear and specialized	respiratory
		eyewear and specialized equipment. Employees are not to	respiratory protection,
	and specialized equipment as well	eyewear and specialized equipment. Employees are not to enter restricted areas unless	respiratory protection, protective
	and specialized equipment as well	eyewear and specialized equipment. Employees are not to enter restricted areas unless accompanied by a properly trained	respiratory protection, protective headwear,
	and specialized equipment as well	eyewear and specialized equipment. Employees are not to enter restricted areas unless accompanied by a properly trained individual familiar with the hazards	respiratory protection, protective headwear, and
	and specialized equipment as well	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	respiratory protection, protective headwear, and specialized
	and specialized equipment as well	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	respiratory protection, protective headwear, and specialized equipment
	and specialized equipment as well	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	respiratory protection, protective headwear, and specialized
	and specialized equipment as well	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	respiratory protection, protective headwear, and specialized equipment
	and specialized equipment as well	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	respiratory protection, protective headwear, and specialized equipment
	and specialized equipment as well	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. Personnel	respiratory protection, protective headwear, and specialized equipment
	and specialized equipment as well	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. Personnel auditing or routinely entering	respiratory protection, protective headwear, and specialized equipment
	and specialized equipment as well	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. Personnel auditing or routinely entering areas where lasers are used will	respiratory protection, protective headwear, and specialized equipment
	and specialized equipment as well	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. Personnel auditing or routinely entering areas where lasers are used will receive laser safety training within	respiratory protection, protective headwear, and specialized equipment
	and specialized equipment as well	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. Personnel auditing or routinely entering areas where lasers are used will receive laser safety training within 6 months of employment and	respiratory protection, protective headwear, and specialized equipment
Working in laboratories and animal	and specialized equipment as well as falling objects.	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. Personnel auditing or routinely entering areas where lasers are used will receive laser safety training within 6 months of employment and renewed every three years.	respiratory protection, protective headwear, and specialized equipment as needed
Working in laboratories and animal housing facilities containing	and specialized equipment as well as falling objects. Exposure to animals and animal	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. Personnel auditing or routinely entering areas where lasers are used will receive laser safety training within 6 months of employment and renewed every three years. Avoid unnecessary exposures.	respiratory protection, protective headwear, and specialized equipment as needed
housing facilities containing	and specialized equipment as well as falling objects.	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. Personnel auditing or routinely entering areas where lasers are used will receive laser safety training within 6 months of employment and renewed every three years. Avoid unnecessary exposures. Proper selection and use of	respiratory protection, protective headwear, and specialized equipment as needed
	and specialized equipment as well as falling objects. Exposure to animals and animal	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. Personnel auditing or routinely entering areas where lasers are used will receive laser safety training within 6 months of employment and renewed every three years. Avoid unnecessary exposures. Proper selection and use of personal protective equipment	respiratory protection, protective headwear, and specialized equipment as needed Lab coat, protective eyewear.
housing facilities containing	and specialized equipment as well as falling objects. Exposure to animals and animal	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. Personnel auditing or routinely entering areas where lasers are used will receive laser safety training within 6 months of employment and renewed every three years. Avoid unnecessary exposures. Proper selection and use of personal protective equipment including gloves, protective	respiratory protection, protective headwear, and specialized equipment as needed Lab coat, protective eyewear. Gloves and
housing facilities containing	and specialized equipment as well as falling objects. Exposure to animals and animal	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. Personnel auditing or routinely entering areas where lasers are used will receive laser safety training within 6 months of employment and renewed every three years. Avoid unnecessary exposures. Proper selection and use of personal protective equipment	respiratory protection, protective headwear, and specialized equipment as needed Lab coat, protective eyewear.

JHA, Version 1.0, November 2014 Page **2** of **5**



		and use protocols.	
		Implementation of proper personal	
		hygiene habits, including washing	
		hands before eating. Participation	
		in the occupational health program	
		for animal workers. All personnel	
		to receive the IACUC Animal Care	
		and Use 101 training during the	
		first 6 months of employment and	
		renewed every three years.	
		Participation in Facilities-specific	
		medical clearances as required.	
Handling and moving heavy items	Ergonomic hazards including heavy	Get help with all loads that cannot	Hand and
and equipment.	lifting, repetitive motions,	be safely lifted by one person. Use	foot
	awkward motions, crushing or	mechanical means to lift and move	protection
	pinching injuries, etc.	heavy items, push carts and dolly	as needed
		rather than pull, and 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.	
		Personnel to receive Back Safety	
		and Injury Prevention training prior	
		to being assigned job task involving	
		handling and moving heavy	
		items/equipment.	
Exposure to noise hazards.	Hearing loss due to noise	Voluntarily participate in the	Hearing
Exposure to noise nazarus.			_
	exposure.	Hearing Conservation Program.	protection
		Use hearing protection as	(ear plugs
		required. All personnel to receive	and muffs,
		Hearing Conservation training	etc.)
		within 6 months of employment	
		and renewed annually.	
General office work.	Back strain, eyestrain, repetitive	Ensure that workstations are	No
	motion injury. Physical injuries	ergonomically correct. Keep floors	
	due to slips, trips and falls, and	clear of debris and liquid spills.	
	falling objects. Electrical hazards.	Keep furniture, boxes, etc. from	
	Physical injuries due to fires,	blocking doorways, halls and	
	earthquakes, bomb threats and	walking space. Do not stand on	
	workplace violence.	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. Do not use extension cords	
		in lieu of permanent wiring.	
		Ensure that high wattage	
		appliances do not overload circuits.	
		Use GFCIs in receptacles in	

JHA, Version 1.0, November 2014 Page **3** of **5**



	1		,
		potentially wet areas. Replace	
		frayed or damaged electrical cords.	
		Ensure that electrical cords are not	
		damaged by being wedged against	ļ.
		furniture or pinched in doors. All	ļ.
		personnel to receive annual	ļ
		training to the Emergency Action	ļ
		Plan (EAP) and Injury and Illness	
		Prevention Plan (IIPP).	
Operation of motor vehicles.	Motor vehicle accidents involving	All drivers of University vehicles	No
	personal injury, or property	must possess a valid California	
	damage.	drivers license and receive the	
		Driver Safety Awareness Course	
		offered by Fleet Services during	
		the first 6 months of employment	
		and renewed every three years.	
		Hazardous materials may not be	ļ
		transported in personally owned	
		vehicles.	



JHA, Version 1.0, November 2014 Page **4** of **5**



Training Record

Designated Trainer: (signature is required)

I have read and acknowledge the contents, requirements, and responsibilities outlined in this document:

Name	Signature	Date

JHA, Version 1.0, November 2014 Page 5 of 5

WORKSITE INSPECTION FORM

General Office Environment

Location	:	Date:							
Inspector	Inspector: Phone:								
Department:									
	Administration and Training								
Yes 🗆	No		NA		1.	Are all safety records maintained in a centralized file for easy access? Are training records current?			
Yes 🗆	No		NA		2.	Have all employees attended Injury & Illness Prevention Program training? Has the training been documented?			
Yes 🗆	No		NA		3.	Does the department have a completed Emergency Action Plan? Are employees trained on its contents and training documented?			
Yes 🗆	No		NA		4.	Are chemical products used in the office being purchased in small quantities? Are Safety Data Sheets available/accessible?			
Yes 🗆	No		NA		5.	Are mandatory employment notices and posters posted: https://www.hr.ucdavis.edu/supervisors/posters-required-by-law?			
Yes \square	No		NA		6.	Are annual workplace inspections performed and documented?			
						General Safety			
Yes \square	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, wall-mounted fire extinguisher available as required by UC Davis Fire?			
Yes 🗆	No		NA		10.	Are ergonomic issues being addressed for employees using computers or at risk of repetitive motion injuries?			
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?			
						Are books and heavy items and equipment stored on low shelves			
Yes \square	No		NA		13.	and secured to prevent them from falling on people during earthquakes?			
Yes \square	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 exposed conductors or broken insulation?			
Yes \square	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 \square	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, doors, ceiling, or present a trip hazard.			
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.			

IIPP-Appendix C1-Office January 2022 Completed copies of this form should be routed to the department Safety Coordinator and must be maintained in department files for at least three years.

IIPP – Appendix D

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.

SAFETY TRAINING ATTENDANCE RECORD

Training 7	Горіс:	Date:			
attach a c	opy of the training session curricu	elum)			
Instructor:		Training Aids:			
Location:		Time:			
Attend	lees – Please print and sign your n	ame legibly. Use additional sheets if necessary.			
No.	Print Name	Signature/Date			
1		<u> </u>			
2		<u> </u>			
3.					
4		_			
5					
6					
7					
8.					
9.		_			
10.		_			
11.					
12		- -			
13 14.		_			
15.					
16.					
17.		_			
18.					
19.					
20.					
21.					
21.					
22.					
23		_			
24		_			
25					
26					
27					
28					
29					
30		_			

IIPP-Appendix E January 2022 Completed copies of this form should be routed to the department Safety Coordinator and must be maintained 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 inleuding 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 inleuding 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 beginning 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 begining 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.

Department Information

Department Name: Mechanical and Aerospace Engineering

Department Director: Dr. Benjamin Shaw

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

Telephone Number: (530) 752-0580

Buildings Occupied by Department (CONTINUED)

5. Building: STEEL

Unit(s): Solar Thermal Energy Enhancement Lab (STEEL)

Contact: Erfan Rasouli | Krasen Kovachev | Felicia Smith

Phone: 530-752-9232 | 530-752-8488 | 530-752-0582

6. Building: Kemper Hall

Unit(s): Research

Contact: Krasen Kovachev | Felicia Smith | Henry Grace

Phone: 530-752-8488 | 530-752-0582 | 530-754-1346

7. **Building:** TB 207

Unit(s): Research

Contact: Krasen Kovachev | Felicia Smith | Henry Grace

Phone: 530-752-8488 | 530-752-0582 | 530-754-1346



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					
EMERGENCY PROCEDURES								
X		Emergency Action Plan						
X		Emergency Response Guide	Location(s) of flipchart guide, discuss scenario actions.					
X		Fire Alarm Pull Station	Show location(s) and proper activation.					
X		Injury Reporting	Review immediate reporting of work-related injuries and illnesses to supervisor. Use online injury reporting form.					
Х		Phone	Location(s), detailed dialing instructions, '911' dialing instructions, bomb threat card.					
X		Warn Me	Enroll in UC Davis <u>Warn Me</u> emergency alert system, recommend registering cellular phone number. https://warnme.ucdavis.edu/					
X		Eye Wash/Safety Shower	· I Show location(s) and brober oberation					
Х		First Aid Kits	Location(s) and description of contents.					
X		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 Electrical Safety training; requirements for lockout a verification testing of energized equipment; if working "hot", p of arc-rated clothing/PPE based on an NFPA 70e arc-flash as and shock hazard analysis insulated tools.								
		<u>Ergonomics</u>	Train employee on proper body mechanics					



	Trainee 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.					
		<u>Hearing Conservation</u>	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(s)</u>	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:					

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.			

DocuSign Envelope ID: 7C1737A9-674D-420F-AC47-8D9FB9F63C38 University of California, Davis

Department of Mechanical and Aerospace Engineering

Name (Please Print)	Email (@UCDAVIS.EDU)	Signature	PI/Supervisor
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			