This Injury and Illness Prevention Program has been prepared by the University of California, Electrical & Computer 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).
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Department Information

Department Name: Electrical & Computer Engineering

Department Director: Prof. Kent Wilken

Address: 2064 Kemper Hall

Telephone Number: 752-9583

Buildings Occupied by Department

1. Building: Kemper Hall
   Unit(s): 079, 083, 088, 121, 122, 125, 127, 131, 154, 154X, 1107, 1127, 1127A, 1207, 1209, 1217, 2001, 2003, 2031, 2035, 2037, 2038, 2039, 2040, 2041, 2064, 2064A, 2064B, 2064C, 2064D, 2064E, 2101, 2104, 2107, 2110, 2112, 2113, 2115, 2117, 2119, 2147, 2151, 2152, 2154, 2155, 2156, 2157, 2158, 2161, 2201, 2201A, 2206, 2211, 2212, 2219, 2221, 2225, 2227, 2229, 2230, 2239, 2244, 2248, 3007, 3017, 3087, 3089, 3101, 3103, 3104, 3110, 3112, 3114, 3116, 3117, 3118, 3119, 3120, 3122, 3123, 3124, 3125, 3127, 3129, 3131, 3133, 3135, 3137, 3139, 3141, 3145, 3161A, 3161B, 3163, 3165, 3167, 3169, 3171, 3173, 3174, 3174A, 3175, 3176, 3176A, 3177, 3179, 3181, 3182, 3183, 3185, 3187, 3189, 3193
   Contact: Lance Halsted (Safety Coordinator) / Tom Coursey (CAO)
   Phone: 752-8959 / 752-9548

2. Building: TB207
   Unit(s): 114, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133
   Contact: Lance Halsted (Safety Coordinator) / Tom Coursey (CAO)
   Phone: 752-8959 / 752-9548

3. Building: Academic Surge
   Unit(s): 2346, 2367, 2367A, 2393, 2394A, 2395, 2397
   Contact: Lance Halsted (Safety Coordinator) / Tom Coursey (CAO)
   Phone: 752-8959 / 752-9548

4. Building: Ghausi Hall
   Unit(s): 1104, 1105, 1123, 3047
   Contact: Lance Halsted (Safety Coordinator) / Tom Coursey (CAO)
   Phone: 752-8959 / 752-9548
5. Building: 3820 Chiles Road ***** To Change
   Unit(s): 125
   Contact: Lance Halsted (Safety Coordinator) / Tom Coursey (CAO)
   Phone: 752-8959 / 752-9548

6. Building: Watershed
   Unit(s): 2101, 2102, 2104, 2201, 2203, 2204-Y
   Contact: Lance Halsted (Safety Coordinator) / Tom Coursey (CAO)
   Phone: 752-8959 / 752-9548
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 (UCD Policy & Procedure Manual Section 290-15: Safety Management Program) and California Code of Regulations (8 CCR, Section 3203) and is held by the following individuals:

1. Name: Prof. Kent Wilken
   
   Title: Department Chair
   
   Authority: Authority and responsibility for ensuring implementation of this IIPP
   
   Signature: (on file)  
   Date: 3/17/16
   
   2. Name: Tom Coursey
   
   Title: Chief Administrative Officer
   
   Authority: Authority and responsibility for ensuring implementation of this IIPP
   
   Signature: (on file)  
   Date: 3/17/16
   
   3. Name: Lance Halsted
   
   Title: Department Safety Coordinator
   
   Authority: Responsible for updating and ensuring implementation of this IIPP.
   
   Signature: (on file)  
   Date: 3/17/16

Additionally, all Principal Investigators and supervisors are responsible for the implementation and enforcement of this IIPP in their areas of responsibility in accordance with University Policy (UCD Policy & Procedure Manual Section 290-15: Safety Management Program).
ECE Safety Committee

The Electrical & Computer Engineering department has established a safety committee, consisting of faculty and staff members, to maintain the safety program of the department. This committee supports the role of the Department Safety Coordinator. Communication on safety issues within the department is enhanced by committee participation of both faculty and staff.

Duties of the ECE Safety Committee

The safety committee has the following duties and responsibilities:

a. Coordinate activities of department/unit safety coordinators, provide direction, and facilitate the dissemination of safety information.

b. Meet at least quarterly.

c. Review results of inspections conducted by the department safety coordinators and audits or inspections by groups outside of the department/unit, e.g., EH&Ś inspections, Department of Health Services inspections.

d. Review investigations of accidents and cases of injury and illness, and make recommendations regarding prevention.

e. Develop strategies for implementing new safety management programs.

f. Develop standardized procedures to make sure all students and staff using any of the labs are properly trained related to safety.

g. Submit recommendations in response to employee safety suggestions.

h. Coordinate department safety issues with the college and the campus.

i. Appoint ad hoc committees as required.

j. Keep written records of meetings and make them available to department/unit employees.
II. System of Communications

1. Effective communications with Electrical and Computer Engineering employees have been established using the following methods:

- Standard Operating Procedures Manual
- Material Safety Data Sheets
- Monthly departmental operations meetings
- Internal media (department intranet)
- EH&S Safety Nets
- Training videos
- Safety Newsletter
- Handouts
- Building Evacuation Plan
- E-mail
- Posters and warning labels
- Job Safety Analysis – Initial Hire
- Job Safety Analysis – Annual Review
- Other (list):
  - [ ] ECE Department Safety web page linked to ECE Dept. homepage.

2. Employees are encouraged to report any potential health and safety hazard that may exist in the workplace. **Hazard Alert 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 (**UCD Procedure 62 - Personnel Policies for Staff Members, 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 (UCD Procedure 62 - Personnel Policies for Staff Members, 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.
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 individual employee work functions, potential health or injury hazards, and specifies appropriate safe practices, personal protective equipment, and tools/equipment. JSA’s have been completed for the following job categories:

A. Kemper Hall faculty and staff offices, conference rooms
   TB207 faculty and staff offices, conference rooms
   Kemper Hall 131, 2211, 2219, 2221, 2225, 2227, 2229, 2230, 3174, 3174A
   Kemper Hall 1101, 1105, 2107, 2110, 2112, 2157, 2161, 3189, 3193
   Academic Surge 2346
   • General office environment
   • Teaching labs

B. Kemper Hall 125, 127, 154, 154X, 1207, 2212. Ghausi Hall 1123.
   • Chemical hazards
   • Physical hazards (lasers, compressed gas)
   • General office environment

C. Kemper Hall 3176, 3176A
   • Chemical hazards
   • General office environment

D. Kemper Hall 1217
   • Chemical hazards
   • Radioactive hazards
   • Physical hazards (compressed gas)
   • General office environment

E. Kemper Hall 121, 122, 1107, 3182
   • Physical hazards (lasers, compressed gas, microwave-producing equipment)
   • General office environment

F. Kemper Hall 2147, 2151, 2155, 2201, 2201A
   • Tool hazards (drill, soldering iron, drill press, Exacto knife, Dremel tool, etc.)
   • General office environment

Job Safety Analysis Forms are located in Appendix B. Completed Job Safety Analyses are to be signed by each employee and kept on file in Kemper Hall 2064 or 2152.

Before a person (whether an employee or not) will be given access to a research lab with safety hazards, the individual must complete the online ECE Departmental Safety Training, print safety training certificate and provide a copy to the lab supervisor.
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) EH&S Lab Safety Reviews
   This inspection covers all labs that contain chemicals, physical hazards, and/or compressed gas;

   Location: Kemper Hall 121, 125, 127, 131, 1207, 1217, 2212, 3176
   Frequency: Annual
   Responsible Person: Veronica Thron
   Records Location: 2152 Kemper

2) CIS/CUPA Self-inspection
   This inspection covers all labs that contain chemicals and/or compressed gas;

   Location: Kemper Hall 121, 125, 127, 131, 1207, 1217, 2212, 3176
   Frequency: Annual
   Responsible Person: Lance Halsted
   Records Location: 2152 Kemper

3) Worksite Inspection & Fire Self-inspection
   All offices (faculty and staff). All labs (teaching and research). All conference rooms. In addition, all corridors connected to any ECE office, lab or conference room. In short, these inspections cover all ECE space.

   Location: All ECE space as listed on p. 4
   Frequency: Annual
   Responsible Person: Lance Halsted
   Records Location: 2152 Kemper

Worksite Inspection Forms are located in Appendix C. Completed Worksite Inspection Forms will be kept on file in Kemper Hall 2152.
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.

Electrical & Computer Engineering faculty, staff and student 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/workers-compensation.

The Accident Investigation Form (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 within eight hours 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 EH&S SafetyNet #121 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 [Hazard Correction Report (Appendix E)](#) 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 Lance Halsted 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 form is located in Appendix F.
VIII. Recordkeeping and Documentation

Documents related to the IIPP are maintained in the Electrical & Computer Engineering main office:

2064 Kemper Hall and/or 2152 Kemper Hall.

The following documents will be maintained within the department’s IIPP Addendum Binder for at least the length of time indicated below:

1. Hazard Alert Forms (Appendix A form).
   Retain for three (3) years.

2. Employee Job Safety Analysis forms (Appendix B form)
   Retain for the duration of each individual’s employment.

3. Worksite Inspection Forms (Appendix C form).
   Retain for three (3) years.

4. Accident Investigation Forms (Appendix D form).
   Retain for three (3) years.

5. Hazard Correction Reports (Appendix E form).
   Retain for three (3) years.

The following documents will be maintained within the department’s IIPP Training Records Binder for at least the length of time indicated below:

1. Employee Safety Training Attendance Records (Appendix F form).
   Retain for three (3) years.
IX. Resources

1. Office of the President: University Policy on Environmental Health and Safety, 10/22/86

2. UC Davis Policy and Procedure Manual, Section 290-15, Safety Management Program

3. California Code of Regulations Title 8, Section 3203, (8CCR §3203), Injury and Illness Prevention Program

4. Personnel Policies for Staff Members, Corrective Action, UCD Procedure 62


6. UC Davis Environmental Health & Safety
   - EH&S Website
   - EH&S SafetyNets
   - Material Safety Data Sheets

7. ADDITIONAL DEPARTMENT RESOURCES
   - ECE Departmental Safety Website