

Injury and Illness Prevention

Program

July 1, 2019



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**Injury and Illness Prevention Program**

**Review and/or Update Log**

Please review and update the written program annually and track the revision in the log below.

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| **Date** | **Revised by:**  **Name** | **Approved by** | **Program Reviewed\***  **(x)** | **Program Updated\*\***  **(x)** | **Comments:** |
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\*Review: Program was either edited for grammatical errors and formatting, small changes occurred

\*\* Update: Program was edited for changes in content

We certified at the time of review, the information provided on this plan is complete and accurate

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Summary

It is the responsibility of the Director of Environmental Health & Safety (EH&S) to create and maintain this Injury & Illness Prevention Plan (IIPP) and serve as **Program Administrator.** The Program Administrator has the authority to implement all provisions of this program. **All employees** are responsible for supporting the program and for working safely and maintaining a safe and healthful work environment. This Injury & Illness Prevention Plan (IIPP) will be reviewed / updated annually.

## Authority

The University Injury & Illness Prevention Plan (IIPP) is created and distributed in accordance with [CSU Executive Order 1039](https://www.calstate.edu/eo/EO-1039.html).

## Purpose

The purpose of this plan is to establish the procedures for campus personnel to prevent/reduce injuries and illnesses.

## Approvals

The California State University San Bernardino (CSUSB) Injury & Illness Prevention Plan (IIPP) has been reviewed and approved by:

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| --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Beiwei Tu, CIH, CSP  Executive Director, Risk Management | Initial Effective Date: **July 1, 2019**  Date of last Revision: **July 1, 2019** |

Management Commitment

# CSU Policy

The California State University (the University) is committed to maintaining a safe environment for its students, academic appointees, staff, visitors, and members of the general public. The University will promote comprehensive injury and illness prevention, as well as hazardous materials and environmental management programs in an atmosphere that encourages employees, students, and other campus members to communicate about occupational and environmental health and safety matters without fear of reprisal. It is the policy of the University to conduct its operations in conformance with applicable laws, regulations, Department of Energy (DOE) requirements, and relevant published standards and practices for health, safety, and environmental protection.

# CSU Executive Order

CSU EO-1039 provide statements informing all employees that safety is a priority issue with management, and urge employees to actively participate in the program for the common good of all concerned. These policies are available online at  [https://www.calstate.edu/eo/EO-1039.html/](https://www.calstate.edu/eo/EO-1039.html)

Roles and Responsibilities

## President

Is ultimately responsible for the effective implementation of the University's Environmental Health & Safety (EH&S) policies, including Injury and Illness Prevention Program (IIPP) at all facilities under campus control. General policies, which govern the activities and responsibilities of the Environmental Health and Safety program, are established under the authority of the President. President is responsible to:

* Demonstrate a genuine interest in safety-specific issues to ensure department head actions;
* Demonstrate support for the safety programs;
* Demonstrate that while safety is everyone’s duty, it is a function of management to ensure a safe working environment

As designated by the President, the individual with responsibility for implementing the IIPP is the Director of Environmental Health & Safety (EH&S), hereafter referred to as the Program Administrator. The Program Administrator has the authority to implement all provisions of this program. All university employees are responsible for supporting the program and for working safely and maintaining a safe and healthful work environment.

|  |  |
| --- | --- |
| Name: | Teresa Fricke |
| Title: | Director, Environmental Health and Safety |
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|  | San Bernardino, CA 92407 |
| Phone: | 909-537-3122 |

## Environmental Health & Safety (EH&S)

EH&S is responsible for:

* Providing consultation to all levels of CSUSB staff and faculty regarding program compliance;
* Developing templates to assist Schools, Colleges, Departments, and Work Units in implementing effective Injury and Illness Prevention Plans;
* Consulting on hazard identification, procedures for correcting unsafe conditions and developing compliance strategies;
* Providing centralized monitoring of campus-wide activities in the areas of environmental compliance, biological safety, chemical hygiene, emergency preparedness, fire safety, hazard communication, hazard identification, hazardous materials management, industrial hygiene, occupational safety, sanitation, and safety education and training;
* Maintaining centralized environmental and employee exposure monitoring records, allowing employee access to records as directed by law;
* Assisting Schools, Colleges, Departments, and Work Units in developing and implementing Integrated Safety and Environmental Management (ISEM).
* Create training and communication materials and coordinate events cross campus to promote safety culture

## Department Roles and Responsibilities

The Department should be actively involved in implementing IIPP and has an obligation to ensure those in supervisory positions have the requisite support to implement the safety related accountabilities.

* **Identifying Hazards**: Conduct periodic safety inspections of all spaces,
* **Communication**: Ensure a free flow of safety information through bulletin boards or periodic discussions. Encourage employees to report potential safety problems.
* **Correcting Hazards**: Correct conditions that are discovered during inspections or reported by employees.
* **Investigating Injuries and Illnesses**: Investigate all accidents, injuries, and near-misses, and make appropriate changes to minimize recurrence.
* **Health & Safety** **Training**: Know the hazards employees face and ensure they're trained to perform their work without illness or injury. The backbone of IIPP training is Integrated Safety & Environmental Management (ISEM), required for every CSUSB employee. EH&S also offers specialized safety training in many areas.
* **Recordkeeping**: Keep safety training, inspection, and accident investigation documents in a centralized file so they're handy for inspectors.

## Vice Presidents, Deans, and Executive Officers

The role of the senior management team is critical to the success of the Campus’ safety efforts and the integration of safety accountability into the culture of the Campus. The senior management’s role includes ensuring subordinate performance relative to safety activity, ensuring the quality of subordinate performance relative to safety, and demonstrating a strong personal belief that safety is important in the management of the Campus.

## Directors, Department Chairs / Unit Heads, Laboratory Directors and Managers

Are accountable for establishing, enacting maintaining and enforcing IIPP. Directors, Department Chairs/Unit Heads, Laboratory Directors and Manager shall

* Ensure areas under their management subscribe to and follow the five steps of the CSUSB ISEM program;
* Hold periodic meetings, at least quarterly, or use other means of communication to discuss safety related issues;
* Establish safety planning procedures, as well as work rules and procedures, for all operations and exposures within their areas of responsibilities;
* Ensure that health and safety practices are consistent throughout the Work Unit;
* Monitor environmental health and safety performance;
* Include compliance with health and safety procedures as part of the annual performance evaluation;
* Recognize employees that consistently perform safety and healthful work practices;
* Discipline employees who knowingly violate safety rules or polices.

## Supervisors, Faculty, and Principal Investigators (PIs)

Supervisors are key figures in CSUSB’s Injury and Illness Prevention Program (IIPP) implementation. It is important that they establish and maintain safe and healthful working conditions, and correct unsafe behaviors and conditions in a timely manner. Supervisors/Principle Investigators (PIs) should implement IIPP through the following actions:

* Subscribe to and follow the five steps of the CSUSB ISEM program;
* Report and investigate all incidents and accidents within their areas of responsibilities to determine causes and take corrective/preventative action;
* Develop their own knowledge and skills in safety and health training relative to their areas of responsibilities and ensure that all employees receive safety training relative to their work exposure;
* Communicate health and safety practices through the area under their management;
* Provide required general and site-specific training to employees
* Encourage employees to report safety concerns without fear of reprisal;
* Make sure that hazardous waste (Biological, Chemical, Radiological) are properly disposed;
* Make sure Standard Operating Procedures (SOPs) are created for high risk activities;
* Make sure hazardous conditions are corrected in a timely manner;
* Where appropriate, facilitate the implementation of:
  + Workplace Inspections;
  + Work unit specific staff training beyond the required EH&S safety courses offered.

## Individual Roles and Responsibilities

The success of CSUSB’s Injury and Illness Prevention Program depends on the actions of all staff, faculty, students, and visitors. Employees are responsible for following the requirements of the IIPP through the following actions:

* Perform their assigned job functions in a safety and healthful manner
* Complete all EH&S required generic and site specific training
* Ask your supervisor or faculty when concerned about an unknown or hazardous situation or substance.
* Report all unsafe conditions, practices, or equipment to your supervisor or to campus EH&S.

Safety Communications

CSUSB’s communication system strives to be in a form “readily understandable by all affected employees.” The system is designed to encourage employees to inform the employer of hazards at the workplace without fear of reprisal by being a two-way system of communication. Safety communications include: Supervisors, Committees, Training, Written Communications, and campus Policies & Procedures.

# Supervisors

Supervisors are responsible for communicating with all workers about safety and health issues in a form readily understandable by all workers. All department personnel are encouraged to communicate safety concerns to their supervisor without fear of reprisal. Supervisors are responsible for ensuring that employees are given access to hazard information pertinent to their work assignments. Information concerning the health and safety hazards of tasks performed by department staff is available from a number of sources. These sources include, but are not limited to, Safety Data Sheets (SDS), equipment operating manuals, the Department Safety Coordinator, EH&S, campus libraries, container labels and work area postings.

# Safety Talks/Tailgate Meetings

Safety talks can be used to supplement training materials, as safety meeting hand-outs, and as resources when conducting new work activities. These discussions provide valuable information on a variety of topics, including laboratory and chemical safety, worker safety and pest control. These resources are available online at <https://www.csusb.edu/ehs>

# Safety Committees

One way in which management can encourage employee participation in their workplace safety program is to create a Safety Committee. The committee can help share the responsibilities of implementing and monitoring the safety program.

Several committees provide forums where employees can freely and openly discuss safety together with members of campus administration. These include the: Campus Risk and Safety Committee, Science Safety Committee, Art Safety Committee, Palm Desert Safety Committee, Teamster and Facility Services Safety Committee (See Appendix C for committee charters).

Information about the meeting dates/times/locations, minutes, and charters, can be found online at <https://www.csusb.edu/ehs>

Figure : Safety Committee

## Campus Risk and Safety Committee

The Campus Risk and Safety Committee (RSC) is the steering committee to manage and communication campus wide Risk and Safety issues. The committee provides leadership and guidance for CSUSB Risk & Safety program and committees, deal with issues, polices and initiatives that affect the entire campus.

The Campus Safety Committee membership is composed of chairs of safety committees and representatives from campus organizations. The committee meets quarterly and meeting minutes and other safety-related items are posted online at <https://www.csusb.edu/ehs>. The key functions for the committee include but are not limited to:

* Review annual Risk and safety goals and objectives;
* Develop major performance indicators - and track campus performance;
* Provide leadership and guideline to various committees;
* Support and communicate risk and safety message across campus;
* Provide periodic report to upper management

## Special Safety Committees

Specialty safety committees are established to focus on and promote safety awareness, build enthusiasm for safety programs and reduce/prevent injuries at the local level. ISEM safety committees report to Campus Safety Committee. Following is the list of the current organization level ISEM committee:

* Science Safety Committee
* Art Safety Committee
* Teamster and Facility Services Safety Committee
* Palm Desert Campus Safety Committee

The Special Safety Committees have the ongoing responsibility to monitor IIPP implementation, to assess compliance with applicable regulations and campus policies, and to evaluate necessary corrective actions at the organization level. The Special Safety Committee meets at least quarterly and includes representatives from various departments of the target organization units. Each department has a designated representative on the committee. The Safety Committee chair may rotate periodically.

The key responsibilities of the committees include:

* Serve as an organization liaison to assist safety program implementation;
* Review quarterly compliance scorecard;
* Review the results of periodic, scheduled workplace inspections to identify any needed safety procedures or programs and to track specific corrective actions;
* Review the summary of all incident investigations;
* Review organization injury data and develop organization specific plan to reduce incident and employee injuries;
* Review supervisors’ investigations of accidents and injuries to ensure that all causes have been identified and all hazards have been corrected in a timely manner;
* Where appropriate, submit suggestions to department management for the prevention of future incidents;
* Review alleged hazardous conditions brought to the attention of any committee member, determine necessary corrective actions, and assign responsible parties and correction deadlines;
* When determined necessary by the Committee, the Committee may conduct its own investigation of accidents and/or alleged hazards to assist in establishing corrective actions;
* Submit recommendations to assist department management in the evaluation of employee safety suggestions.

## Meeting Minutes

Safety Committee shall prepare and make available to the campus written minutes of issues discussed at the meetings. The Committee meeting minutes must be documented and maintained on file for at least one year.

## Safety committee action item documentation and tracking

Health and Safety concerns identified during the committee meetings should be addressed in a timely manner to maintain a safe and healthy working environment and be in compliance with Federal, State and local rules and regulations and CSU policies and procedures.

* Campus Safety Committee meeting minutes serve as a documentation of tracking compliance and action taken. Environmental Health and Safety department should maintain a master list of all health and safety issues identified during the Safety Committee meetings.
* Issues regarding health and safety concerns or compliance are presented at scheduled campus safety committee meetings and are assigned to committee members with a 30 day timeframe for assessment and resolution. The safety committee member will serve as a liaison between the safety committee and the responsible party for the corrective action.
  + If the issue affects more than one responsible party, the allotted 30 days can be extended as long as there is a written plan or procedure to ensure resolution within a timely manner with prior acknowledgement from all parties.
* If the 30 day timeframe has expired or no response/update is provided by the next campus safety committee meeting, EH&S should prioritize and evaluate the issue and status. If needed, EH&S will pursue corrective actions by engaging upper management. The responsible parties should routinely inform EHS of the progress and notify EH&S when the issue is resolved. EH&S will document the completion date on the master list and report it back to the committee during the next Safety Committee meeting. The safety committee meeting minutes shall be updated accordingly.

# Communications Resources

### EH&S

Environmental Health & Safety (EH&S) provides the campus with the following written communications available online at <https://www.csusb.edu/ehs> (under “Resources”). Examples include Brochures, Fast Facts, Handouts, Posters, Signs and Videos

## Websites and Emails

### Websites

Websites with real-time safety information and resources are available:

#### Environmental Health & Safety (EH&S) <https://www.csusb.edu/ehs>

### Emails

Messages are periodically sent to staff, faculty, and students using the campus Listserv systems.

## Safety Data Sheets

Safety Data Sheets (SDSs) provide information on the potential hazards of products or chemicals. SDSs are available online at <https://www.csusb.edu/ehs> and over the Internet from a variety of sources. To assist with locating and uses SDSs, EH&S provides fact sheets, websites, and training.

## Equipment Operating Manuals

All equipment is to be operated in accordance with the manufacturer’s instructions, as specified in the equipment’s operating manual. Copies of operating manuals should be kept with each piece of equipment in the department. Persons who are unfamiliar with the operation of a piece of equipment and its potential hazards must at least read the operating manual before using the equipment. Training should also be sought from an experienced operator or supervisor.

Hazard Assessment - Identification and Control

Hazard identification and control is an ongoing process and is fundamental to the effectiveness of the IIPP. Supervisors are responsible for hazard assessment for their assigned work areas and EHS is responsible to provide technical support to the supervisors.

# Hazard assessment process - Integrated Safety and Environmental Management (ISEM)

Systematically integrate health, safety, environmental considerations, and sustainable use of natural resources into all activities is an effective method of reducing accidents and employee injuries. Five core safety and environmental management functions provide the necessary framework for any activity that could potentially affect faculty, staff, students, visitors, the public, or the environment. The functions are applied as a continuous cycle with the degree of rigor appropriate to address the type of activity and the hazard or environmental aspect involved. Following is a brief summary of the 5 steps

ISEM process:

1. **Define the Scope of Activities**

Goals and programs are translated into activities, expectations are set, tasks are identified and prioritized, and resources are allocated.

1. **Analyze the Hazards**

Hazards and environmental aspects associated with the activities are identified, analyzed, and categorized.

1. **Develop and Implement Hazard and Operational Controls**

Applicable standards and requirements are identified and agreed upon, controls to prevent/mitigate hazards and aspects are identified, the safety and environmental parameters are established and controls are implemented.

1. **Perform Activities within Established Controls**

Readiness is confirmed and activities are performed safely and in compliance with applicable regulations and policies.

1. **Provide Feedback and Assure Continuous Improvement**

The appropriate parties obtain feedback on the adequacy of controls, identify opportunities for improving the definition and planning of activities, conduct departmental and independent oversight and, if necessary, participate in regulatory enforcement actions. As a complement to departmental management, the campus EH&S offices may be contacted to provide safety and environmental assistance, consultation, and independent oversight functions.



Figure 2: ISEM process

# PPE hazard assessment

PPE hazard assessment shall be performed for non-office type of jobs. PPE is not required for office environment

## Lab PPE hazard assessment

PPE hazard assessment will be completed using an online hazard assessment tool, RSS assessment.

## Non-lab PPE hazard assessment

Non-lab PPE hazard assessment will be completed by the supervisor using PPE hazard assessment form (See Appendix D).

# Hazard Reports

All Employees are encouraged to report unsafe conditions and practice in their work areas to their supervisor, Safety Committee Members and EH&S. Employee may also report an unsafe condition or hazard using the Hazard Report form available online <https://www.csusb.edu/ehs>, anonymously if desired. The "Hazard Report form” should be filled out when a referral is made to the Safety Committee as a result of a condition discovered during an inspection for which the responsible supervisor could not determine an immediate remedy.

# Inspections / Audits

Regular self-inspections of work areas, warehouse, hazard waste storage, shops, and laboratories must be conducted by the supervisors. Supervisors are responsible for self-inspection and EHS is responsible for other inspections. By law, the first of these inspections must take place when the department first adopts the IIPP. The inspections, and corrective actions, should be noted on the corresponding inspections/audit checklists available online at <https://ehs.ucop.edu/inspect>. Corrective actions generated during these regular inspections will be supplemented with additional inspections whenever new substances, processes, procedures, or equipment introduced into the workplace represent a new occupational safety and health hazard or whenever supervisors are made aware of a new or previously unrecognized hazard.

EH&S periodically evaluates the inspections/audits, and provides reports to departmental and campus management on the inspection results and implementation of corrective actions.

# Correcting Unsafe / Unhealthy Conditions

Unsafe or unhealthy working conditions, practices or procedures shall be corrected in a timely manner based on the severity of the hazards. Generally, supervisors are responsible for identification and correction of hazards that their staff and/or students face and should ensure that work areas they exercise control over are inspected at least annually. Supervisors should check for safe work practices with each visit to the workplace and should provide immediate verbal feedback where hazards are observed. Supervisors of affected employees are expected to correct unsafe conditions, including chemical spills, as quickly as possible after discovery of a hazard. Small spill can be cleaned by the department. For large spill, Supervisor is responsible to contact EHS for assistance. EHS will coordinate the spill cleanup activities for large spills.

## Procedures

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

* Tagging unsafe equipment with “Temporarily Out of Service” signs and providing a list of alternative tools or procedures for employees to use until the item 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 a supervisor or Building Coordinator.

## Imminent Hazards

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

Accident Investigation

# Injury Reports

Employees who are injured at work must report the injury immediately to their supervisor. Students who are not employees who are injured or involved in an accident should report the incident to their instructor. In either case, if immediate medical treatment is needed, seek medical treatment first. The injured party will be taken to the appropriate hospital or medical facility.

Supervisor should report immediately to EH&S (909)437-3144 [allehs@csusb.edu](mailto:allehs@csusb.edu) following the procedures in Appendix B “Report severe injuries and fatalities” any work related:

* Fatality
* Injury or illness which requires inpatient hospitalization (for a period in excess of 24 hours), or in which an individual suffers a loss of any member of the body or any serious degree of permanent disfigurement
* Inpatient hospitalization does not include medical observation.

EHS shall report the reportable incident to CAL/OSHA San Bernardino Office (Tel: 909-383-4321) once the report is received from the supervisor.

The supervisor of the injured employee must work with designated department personnel to ensure that the CSUSB ***Injury and Incident Investigation*** report is completed within 24 hours (see Appendix C for incident investigation report form).

# Incident Investigation

The supervisor is responsible for performing an initial investigation to determine and correct the cause(s) of the incident. Specific procedures that can be used to investigate workplace accidents and hazardous substance exposures include:

* Interviewing injured personnel and witnesses.
* Examining the injured employee’s workstation for contributing factors.
* Reviewing established procedures to ensuring they are adequate and were followed.
* Reviewing training records of affected employees.
* Determining all contributing causes to the accident.
* Taking corrective actions to prevent the accident/exposure from reoccurring.
* Recording all findings and actions taken.

The supervisor’s findings and corrective actions are documented onto the CSUSB **Injury and Incident Investigation report** (See Appendix C) and reviewed by the special safety committee and EH&S.

The special Safety Committee and EH&S will review each accident or injury report to ensure that the investigation was thorough and that all corrective actions are completed. When investigations and/or corrective actions are found to be incomplete, the accident or injury report will be routed back to the supervisor for further follow-up, with specific recommendations noted by the committee and EH&S.

Training

# Supervisors are responsible for providing training to their employees:

To all staff, faculty, students, and affiliates (new and existing),

To all staff and faculty given new job assignments for which training has not been previously received,

Whenever new substances, processes, procedures or equipment are introduced to the workplace and present a new hazard.

Whenever there is awareness of a new or previously unrecognized hazard.

Employee safety training is provided at no cost to the employee and is conducted during the employee’s normal working hours on University time. Safety training may be presented by a knowledgeable supervisor, other department personnel, or by representatives from other relevant campus departments.

## Initial IIPP Training

When the IIPP is first implemented, all department personnel will be trained on the structure of the IIPP, including individual responsibilities under the program, and the availability of the written program. Training will also be provided on how to report unsafe conditions, how to access the Safety Committee, and where to obtain information on workplace safety and health issues.

Personnel hired after the initial training sessions will be oriented on this material as soon as possible by the Safety Coordinator or appropriate supervisor. These individual training sessions should also be documented.

# Training on Specific Hazards

All supervisors must ensure that the personnel they supervise receive appropriate training on the specific hazards of work they perform, and the proper precautions for protection against those hazards. Training is particularly important for new employees and whenever a new hazard is introduced into the workplace. Such hazards may include new equipment, hazardous materials, or procedures. Health and Safety training is also required when employees are given new job assignments on which they have not previously been trained and whenever a supervisor is made aware of a new or previously unrecognized hazard.

## Required training

Training identified by regulatory agencies will be considered mandatory, and must be completed. Minimum safety training courses are outlined as follows:

|  |  |
| --- | --- |
| Non Laboratories  (e.g., Offices, Classrooms, Arts / Crafts / Shops / Studios, Dining, Housing, Health Center, etc.) | Laboratories  (e.g., Research &Teaching Labs, Field Operations, etc.) |
| Minimum requirements   * Safety Orientation | Minimum requirements   * Laboratory Safety Orientation * Hazardous Waste Management |

Depending on the activity of the personnel, additional courses must be completed per training matrix and/or the training **Needs Assessment** available at <https://www.csusb.edu/ehs>

All individuals shall complete either general Safety Orientation (within 30 days of hire), or Laboratory Safety Orientation (before beginning work in a Laboratory/Technical Area). This requirement does not apply to undergraduate students taking courses offered in the course catalog of that campus, unless the work occurs within a research laboratory/technical area.

# Needs Assessment

Identification of required training shall be based on hazards (activities or tasks), and accomplished using a training needs assessment, hazard assessment, training matrix, accident / incident investigation report, job hazard analysis / job safety analysis, or any document that provides a risk assessment. The results of a training needs assessment (or equivalent) must be incorporated into a training matrix/plan that is implemented by the supervisor and individual(s). Training matrix/plans may be developed for a group of individuals (or by position) upon consultation with EH&S. Training plans must be developed before individuals assume a new job function, or a new task.

## Training Records

Documentation of training shall include the following elements:

1. Course name
2. Name of participant(s)
3. Name of instructor(s) or method of delivery (e.g., “Online”, or “Self-Paced”)
4. Date
5. Topics covered (or other way in which topics can be identified, such as through a course code)

Documentation may be recorded using the roster template in Appendix D “Training Record”, or online at <https://csu.sumtotal.host/Core/dash/home/Home_San_Bernardino>. Records shall be kept (at minimum) for five years after the training. Thereafter, data shall be maintained in an electronic database indefinitely. Record-keeping shall be decentralized; maintained by supervisors and/or departments who provide training. Records shall be identifiable, retained, and accessible. Data shall be centralized; maintained using an electronic database, such as a campus learning management system (LMS).

Recordkeeping

Documents related to the IIPP are maintained in a safe and convenient location for record keeping. Documents that should be kept on file at CSUSB include:

# Campus Records

* Hazard Reports (or Reports of Unsafe Conditions or Hazards)
* Safety Committee meeting documentation
* Training records (database)
* Incident and Investigation Reports
* Exposure Records

# Department Records

* Inspections/Audits, including the persons conducting the inspection, any identified unsafe conditions or work practices, and corrective actions.
* Safety meetings (agendas, minutes, handouts)
* Safety talks
* Authorizations & Permits (e.g., Confined Space permits, Hot work permits, Biological Use Authorization, Controlled Substance Use Authorization, Radiation Use Authorization, etc.)
* Training records (rosters, tests, training materials)
* Other

Safety Planning, Rules, & Work Procedures

# Ensuring compliance

All personnel have the responsibility for complying with safe and healthful work practices, including applicable regulations, campus policy, and departmental safety procedures. Overall performance in maintenance of a safe and healthy work environment should be recognized by the supervisor and noted in performance evaluations. Employees will not be discriminated against for work-related injuries, and injuries will not be included in performance evaluations, unless the injuries were a result of an unsafe act on the part of the employee.

Standard progressive disciplinary measures in accordance with the applicable personnel policy or labor contract will result when employees fail to comply with applicable regulations, campus policy, and/or departmental safety procedures. Faculty members will be disciplined for unsafe practices in accordance with the Faculty Code of Conduct. Students not employed by the University will be disciplined for unsafe practices in accordance with the Student Code of Conduct. All personnel will be given instruction and an opportunity to correct unsafe behavior. Repeated failure to comply or willful and intentional noncompliance may result in disciplinary measures up to and including termination.

Heat Illness Prevention

All employees work outdoors should follow heat illness prevention procedures listed in Appendix F. If the employee works at a remote location, addition emergency response information specific for the location needs to be developed by the department.

Appendices

These documents are available online:

Appendix A: Safety Committee Charters

Appendix B: Incident Investigation Report

Appendix C: Report Severe Injuries and Fatalities

Appendix D: Non-lab PPE hazard assessment

Appendix E: Training Record (roster)

Appendix F: Heat Illness Prevention Procedure Manual

Appendix A. Safety Committee Charters

**Science Safety Committee (SSC) Charter**

The Science Safety Committee (SSC), formally known as the Chemical Hygiene Committee, is responsible for evaluating and administering the chemical safety aspects of all University programs involving the research and teaching use of hazardous chemicals under the provisions outlined in the Chemical Hygiene Plan.

**CHARGE:**

The Science Safety Committee’s charge includes:

* Identify and analyze laboratory chemical safety policies and procedures as they affect the campus safety community.
* Recommend corrective and preventative actions to address chemical safety incidents and safety and/or regulatory violations.
* Review and assess Chemical Hygiene Plan for practicality and applicability to campus activities in accordance with campus safety and regulatory requirements.
* Establish and implement inspection criterion and effectively set general laboratory safety rules.
* Provide information and advocacy for the campus community who have safety concerns.

Sub-committees will be created as needed to address specific issues or functional areas. Those committee members, delegated campus personnel, and volunteers will be invited to serve according to area of expertise and interest in the subject.

The delegated chairperson of the SSC is responsible for bringing the concerns and/or reoccurring issues of the SSC to the Dean of the College and the VP Administration and Finance who will then apprise the University President, as appropriate.

**MEETINGS:**

The SSC will meet as necessary to conduct business, but no less than three times year for each consecutive fall, winter, and spring quarter. The SSC does not meet during summer.

Meeting agenda will be sent out at least a week in advance of a scheduled committee meeting. Minutes will be taken at each meeting and kept on file in the Environmental Health and Safety office. Minutes will also be made available for ease of access on the Environmental Health and Safety website under “Safety Committees” (<https://www.csusb.edu/ehs/safety-committees>).

**MEMBERSHIP:**

Members of the committee will consist of a representative/delegate from each department involved in use and/or storage of chemicals and potential laboratory hazards. Members can include CSUSB faculty, staff, students, and administrators.

**2018-2019**

**SCIENCE SAFETY COMMITTEE MEMBERSHIP**

**Chair**

Co-Chair: TO BE VOTED IN

Co-Chair: Director, Environmental Health and Safety –Teresa Fricke

**Members**

Natural Sciences Dean –Dr. Sastry Pantula

Equipment Technician, Natural Sciences –James Pelley

Department Chair, Biology –Dr. Mike Chao

Instructional Support Technician, Biology –Tom Benson

Instructional Support Technician, Biology –Dave Coffey

Department Chair, Chemistry – Dr. Kimberly Cousins

Instructional Support Technician, Chemistry –Jose Salazar

Instructional Support Technician, Chemistry –Teo Cristano

Instructional Support Technician, Chemistry –Courtney Traugh

Department Chair, Physics – Dr. Paul Dixon

Faculty, Physics –Dr. Sara Callori

Department Chair, Health Science – Dr. Claudia Davis

Department Chair, Nursing –Terese Burch

Department Chair, Geological Sciences –Dr. David Maynard

Faculty, Geological Sciences –Dr. Joan Fryxell

Faculty, Geological Sciences –Dr. Erik Melchiorre

Dean, College of Social and Behavioral Sciences –Dr. Rafik Mohamed

Department Chair, Psychology –Dr. Robert Ricco

Faculty, Psychology –Dr. Cynthia Crawford

Administrative Analyst Specialist, Office of Academic Research –Michael Gillespie

Administrative Analyst Specialist, Environmental Health and Safety –Kathy Pierson

Administrative Analyst Specialist, Environmental Health and Safety –Benjamin Virzi

Administrative Analyst Specialist, Environmental Health and Safety –Rominna Valentine Ico

**Palm Desert Safety Committee (PDC SC) Charter**

The Palm Desert Safety Committee (PDC SC), is responsible with promoting a safe working environment with respect to chemical and physical hazards in all research and teaching laboratories, as well as educational workshops that support liberal arts program for the CSUSB sister campus at Palm Desert.

**CHARGE:**

The Palm Desert Safety Committee’s (PDC SC) charge includes:

* Identify and analyze campus safety by safeguarding personnel, the general public, and the environment through a series of policies and procedures, training programs for the safe use of potential hazards.
* Recommend corrective and preventative actions to address departmental campus safety concerns and incidents, modifications, campus violations, and regulatory requirements.
* Study, review, advise, and recommend policies and procedures relating to the safety of the campus community as it pertains the campus policies and regulatory requirements.
* Provide information and advocacy for the campus community who have safety concerns.

Sub-committees will be created as needed to address specific issues or functional areas. Those committee members, delegated campus personnel, and volunteers will be invited to serve according to area of expertise and interest in the subject.

The delegated chairperson of the PDC SC is responsible for bringing the concerns and/or reoccurring issues of the PDC SC to the Dean of the College and the VP Administration and Finance who will then apprise the University President, as appropriate.

**MEETINGS:**

The PDC SC will meet as necessary to conduct business, but no less than three times year for each consecutive fall, winter, and spring quarter. The PDC SC does not meet during summer.

Meeting agenda will be sent out at least a week in advance of a scheduled committee meeting. Minutes will be taken at each meeting and kept on file in the Environmental Health and Safety office. Minutes will also be made available for ease of access on the Environmental Health and Safety website under “Safety Committees” (<https://www.csusb.edu/ehs/safety-committees>).

**MEMBERSHIP:**

Members of the committee will consist of a representative/delegate from each department involved in potential campus hazards. Members can include CSUSB faculty, staff, students, and administrators.

**2018-2019**

**PALM DESERT SAFETY COMMITTEE MEMBERSHIP**

**Chair**

Chair: Director, Environmental Health and Safety –Teresa Fricke

**Members**

Dean, Palm Desert Campus –Dr. Jake Zhu

Director of Campus Operations, Palm Desert Campus –Jack Macfarlane

Equipment Systems Specialist, Palm Desert Campus –Cary Tyler

Community Service Specialist, Palm Desert Campus –Katrina McDowell

Facilities Project Supervisor, Palm Desert Campus –Francisco Castro

Administrative Analyst Specialist, Environmental Health and Safety –Kathy Pierson

Administrative Analyst Specialist, Environmental Health and Safety –Benjamin Virzi

Administrative Analyst Specialist, Environmental Health and Safety –Rominna Valentine Ico

Appendix B: Report Severe Injuries and Fatalities

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Title\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Department: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Tel: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Any work-related fatality, injury or illness that requires inpatient hospitalization for a period in excess of 24 hours for other than medical observation or in which an employee suffers a loss of any member of the body or suffers any serious degree of permanent disfigurement shall be report to Cal/OSHA within 8 hours.

1. Record following information for the work-related fatality or serious injury and illness

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employer Name: | California State University San Bernardino | | | | |
| Employer Phone: | 909-537-3122 | | | | |
| Employer Address: | 1500 University Parkway, San Bernardino, CA 92407 | | | | |
| Name and title of the person reporting the incident: | | | | |  |
| Phone number of the person reporting the incident: | | | | |  |
| Name of employer representative to contact at site of incident: | | | | Teresa Fricke, EHS Director | |
| Date and time of incident: | |  | | | |
| Location or site of incident: | | |  | | |
| Name and Department of injured employee: | | | |  | |
| Address of injured employee: | | |  | | |
| Phone of injured employee: | | |  | | |
| Nature of injury (example: death, amputation of left arm, puncture wound to right thigh) | | | |  | |
| Description of incident and whether the incident scene or instrumentality has been altered | | | |  | |
| List and identity of any law enforcement agencies present at the site of the incident: | | | |  | |

1. **CALL Environmental Health & Safety (Tel: 909-537-5179) and/or Email allehs@csusb.edu & riskmanagement@csusb.edu IMMEDIATELY OF KNOWING ABOUT THE INJURY OR ILLNESS** to report the fatality or serious injuries or illness information listed above.

Appendix C: Incident Investigation Report Form

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CSUSB Incident Investigation Report** | | | | | | | | | | | | |
| **EMPLOYEE DATA** | Employee Name: | | | Sex:  Female  Male | | | | | | Employee’s Coyote ID #: | | |
| Department/Location: | | | | Employee’s Work Phone: | | | | | | Date of Hire: | |
| Payroll Title: | | | | Employee () Volunteer () Student-Employee () Non-Employee () | | | | | | | |
| Supervisor’s Name: | | | | | | Supervisor’s Work Phone: | | | | | |
|  | | | | | | | | | | | | |
| **INCIDENT INFORMATION** | Date of injury/illness: | | | | | Location where injury or illness occurred: | | | | | | |
| Nature of the injury/illness: | | | | | Body Part(s) affected: | | | | | | |
| Incident type: :  Injury  Property Damage  Injury and property damage  Near Miss:  3rd party Claim  Hazmat Spill:  Special case \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | | | |
| Treatment: :  No treatment  First Aid  Medical treatment, treated at | | | | | | | Restriction  Yes Estimate       days  No  NA  Lost work day  Yes Estimate      days  No  NA | | | | |
| Employee’s statement: | | | | | | | | | | | |
| Witness and witness statement: | | | | | | | | | | | |
| Supervisor’s findings: | | | | | | | | | | | |
| Additional information: | | | | | | | | | | | |
| **DIRECT CAUSE** | | **INDIRECT CAUSES** | | | | | | | **BASIC CAUSE** | | | |
| Struck by or against object (indicate)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Caught in/under/  between  Fall / Slip / Trip  Material handling or lifting  Repetitive motion  Chemical  exposure  Body fluid  exposure:  \_\_Needle stick  \_\_Sharps  Animal bite  Other, Explain  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | **Equipment**  Equipment failure  Equipment unavailable  Improper equipment or  material used for job  **Personal protective equipment**  Not worn  Not readily available  Not adequate for the task  Personal protective equipment failure  **Training/Experience**  Lack of training  Safety training provided, not followed  New task for employee or lack of experience  **Work Area**  Work area set up improperly  Inadequate lighting or noise issues  Housekeeping issues  Environmental factors  (rain, wind, temp. etc) | Ventilation issues  Ergonomic factors  **Employee**  Physically not able to do work  Employee fatigue  Unbalanced or poor position or motion  Incorrect procedures used for task  Other unsafe practice  **Assistance**  Difficult to perform task  without help  Safety features or devices not readily available  Assistive devices not used  **Lack of policy/procedure**  **Animal** (explain below)  **Other** (explain) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Use additional pages as needed.** | | | | | | **Management Safety Policies & Decisions**  *Inadequate personnel practices regarding:*  Training  Job observation  Communication  Improper employee assignment  Improper/no assignment of responsibility/ accountability  Other  *Procedures do not provide for:*  Adequate housekeeping  Preventive maintenance  Communication of hazards and means of control  Documented safe work practices or procedures  Follow up and/or tracking of hazard correction  Safety inspections  Other  *Safety is not considered in the purchase, installation or use of:*  Equipment, machinery tools  Supplies or materials  Outside services  Other  **Personnel Factors**  *Experience factors:*  Unsafe practices  Inadequate skills  Insufficient knowledge  History of accidents  Other | | | *Behavior factors:*  Lack of hazard awareness  Inattention to tasks  Inappropriate risk taking  Repeat accident  Other  *Physical factors:*  Lack of required strength  Lack of required stamina  Other  **Environmental Factors**  *Unsafe operating procedures:*  Routine  Emergency  Other  *Unsafe projections/surfaces:*  Equipment  Supplies/materials  Structure/furnishings  Other  *Unsafe location factors:*  Terrain (uneven, unstable)  Surroundings (equipment, people)  Weather conditions  Access (blocked exits)  Other  *Unsafe facility design:*  Access (blocked exits)  Utility layout (electrical outlets, mechanical & hydraulic systems)  Lighting, HVAC, noise  Material handling  Other |

|  |  |  |  |
| --- | --- | --- | --- |
| **CORRECTIVE ACTION/POSSIBLE ALTERNATIVES** | | | |
| Alternatives and corrective actions should be based upon the “Hierarchy of Health and Safety Controls”. The single most important outcome that can result from an incident is the implementation of effective, high level safety controls to prevent or significantly reduce the chance of the incident reoccurring. The Hierarchy is defined by 5 levels of safety controls. The top 2 levels, “Elimination / Substitution” and “Engineering” controls are by far the most effective in preventing or reducing the reoccurrence of an incident because they rely much less on human behavior, are more difficult to defeat, and require much less continuing human effort than the lower level controls. As alternatives are developed and corrective actions planned, every effort should be made to implement the top 2 levels (Elimination / Substitution and Engineering) of controls. | Hierarch of Safety and Health Controls | | |
| **Action to be taken** | | **Assigned to** | **Target Date** |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
| **Employee Signature** | | **Date:** | |
| **Supervisor’s or Manager’s Signature:** | | **Investigation Date:** | |
| **Comments:** | | | |

**Instructions for Completing the Accident Investigation Report**

**Employee Data**

Employee Name: Record the name of the employee involved.

Sex: M=male; F=female

Employee Coyote ID: The purpose of the Coyote ID is to avoid errors that could arise when two or more employees at the same location have the same name.

Department / Location: The regular department is the "home base" of the employee. It may not necessarily be the department in which the incident occurred. For example, a maintenance person who was injured in the Chemistry department would record Maintenance Department as the regular department. Leave this field blank if the incident was a near-miss, which did not involve a person.

Employee’s Work Phone: CSUSB phone number where employee can be reached.

Date Hired: This field will have value for analyzing the incidence of occupational injury and illness among newly hired workers and those with longer tenure. For the relatively infrequent situation where employees are hired, terminated, and then rehired, the employer can, at his or her discretion, enter the date the employee was originally hired, or the date of rehire.

Payroll Title: Record the payroll job classification to which the employee is regularly assigned.

Work Status: Check if the incident involved an Employee, Volunteer, Student-Employee, Non-Employee.

Supervisor Name: Record the name of the employee’s supervisor.

Supervisor Work Phone: Record the phone number of the employee’s supervisor.

**Incident Data**

Date of Injury / Illness: Record day, month and year of incident. For latent health issues, record the date when the illness was diagnosed or record the date of the hearing test when the hearing loss was detected.

Location where injury or illness occurred: List the exact location of the incident. For example, Chemical Sciences Room 305.

Nature of Injury. Please classify nature of injury. Burn, bite, chemical splash, fall, etc.

Body Part(s) affected: Self-explanatory.

Incident Type: Select the most applicable incident type (one only)

Treatment: Select the most applicable treatment (one only)

Restricted or Lost Work Days: Select the most applicable answer. Provide estimated days if yes is checked for either type.

Employee’s Statement. Record employee’s statement as to what occurred.

Witness and Witness Statement. Record witness name and witness statement as to what occurred (if applicable).

Supervisor’s Findings: Record any findings supervisor may have regarding the incident.

Additional Information: Record any additional information as necessary.

**Direct / Indirect / Basic Causes**

In spite of their complexity, most incidents are preventable by eliminating one or more causes. Investigations determine not only what happened, but also how and why. The information gained from these investigations can prevent recurrence of similar or perhaps more serious incidents. Investigative team efforts must focus on all events, as well as the sequence of events, that led to an incident.

Direct Cause – Unplanned release of energy or hazardous material. Example: The knife that cut (laceration) the palm of the hand. Please choose the most appropriate choice.

Indirect Cause – Symptoms – Unsafe Acts and/or Unsafe Conditions. Example: Tripping over unrolled hose left on floor causing contusion to knee. Please choose the most appropriate choice(s). There may be more than one choice.

Basic Causes – (Poor) Management Policies or Decisions, or to Personal or Environmental Factors. Example: Lack of instruction in proper cutting techniques. Lack of supervision to reinforce safe work practices. Personal decision by individual to take a short-cut to save time. Please choose the most appropriate choice(s). There may be more than one choice.

**Corrective Action / Possible Alternatives**

Action(s) to be taken: What corrective actions will be taken to prevent recurrence of the incident? The following examples provide basic ideas for this section.

|  |  |  |
| --- | --- | --- |
| * Use safer materials/supplies * Improve illumination * Improve ventilation * Mandatory pre-job instructions * Job reassignment of employee * Improved inspection procedure * Improved clean-up procedure | * Improved enforcement * Develop Job Safety Analysis (JSA) or Standard Operating Procedure (SOP) for the job / task * Revise the JSA or SOP * Install/revise safety guard/device * Require protective equipment * Repair/replace equipment * Improved storage/arrangement | * Improve design/construction * Eliminate congestion * Reinstruction of employees involved * Warning to employees involved * Discipline of employees involved * Preventive instruction of others doing job |

Employee Signature and Date: Self Explanatory

Supervisor or Manager’s Signature and Date: Self-explanatory

Appendix D: Non-lab PPE Hazard Assessment

**Department**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Work area(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Job/Task(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assessment conducted by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date of assessment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| Eye | | |
| Work activities, such as:  abrasive blasting  sanding  chopping  sawing  cutting  grinding  drilling  hammering  welding  chipping  soldering  torch brazing  working outdoors  computer work  punch press operations  other: | Work-related exposure to:  airborne dust  dirt  UV  flying particles/objects  blood splashes  hazardous liquid chemicals mists  chemical splashes  molten metal splashes  glare/high intensity lights  laser operations  intense light  hot sparks  other: | Can hazard be eliminated without the use of PPE?  Yes No  If no, use: With:  Safety glasses  Side shields  Safety goggles  Face shield  Dust-tight goggles  Shaded  Impact goggles  Prescription  Welding helmet/shield  Chemical goggles  Chemical splash goggles  Laser goggles  Shading/Filter (# )  Welding shield  Other: |
| Face | | |
| Work activities, such as:  cleaning  foundry work  cooking  welding  siphoning  mixing  painting  pouring molten  dip tank operations metal  pouring  working outdoors  other: | Work-related exposure to:  hazardous liquid chemicals  extreme heat  extreme cold  potential irritants:  other: | Can hazard be eliminated without the use of PPE?  Yes No  If no, use:  Face shield  Shading/Filter (# )  Welding shield  Other: |
| HEAD | | |
| Work activities, such as:  building maintenance  confined space operations  construction  electrical wiring  walking/working under catwalks  walking/working on catwalks  walking/working under conveyor belts  working with/around conveyor belts  walking/working under crane loads  utility work  other: | Work-related exposure to:  beams  pipes  exposed electrical wiring or components  falling objects  fixed object  machine parts  other: | Can hazard be eliminated without the use of PPE?  Yes  No  If no, use:  Protective Helmet  Type A (low voltage)  Type B (high voltage)  Type C  Bump cap (not ANSI-approved)  Hair net or soft cap  Other: |
| HANDS/ARMS | | |
| Work activities, such as:  baking  material handling  cooking  sanding  grinding  sawing  welding  hammering  working with glass using power tools  using computers  working outdoors  using knives  dental and health care services  garbage disposal  computer work  other: | Work-related exposure to:  blood  irritating chemicals  tools or materials that could scrape, bruise, or cut  extreme heat  extreme cold  animal bites  electric shock  vibration  musculoskeletal disorders  sharps injury  other: | Can hazard be eliminated without the use of PPE?  Yes No  If no, use:  Gloves  Chemical resistance  Liquid/leak resistance  Temperature resistance  Abrasion/cut resistance  Slip resistance  Latex or nitrile  Anti-vibration  Protective sleeves  Ergonomic equipment\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Other: |
| FEET/LEGS | | |
| Work activities, such as:  building maintenance  construction  demolition  food processing  foundry work  working outdoors  logging  plumbing  trenching  use of highly flammable materials  welding  other: | Work-related exposure to:  explosive atmospheres  explosives  exposed electrical wiring  heavy equipment  slippery surfaces  impact from objects  pinch points  crushing  slippery/wet surface  sharps injury  blood  chemical splash  chemical penetration  extreme heat/cold  fall  other: | Can hazard be eliminated without the use of PPE?  Yes No  If no, use:  Safety shoes or boots  Toe protection  Metatarsal protection  Electrical protection  Heat/cold protection  Puncture resistance  Chemical resistance  Anti-slip soles  Leggings or chaps  Foot-Leg guards  Other: |
| BODY/SKIN | | |
| Work activities such as:  baking or frying  battery charging  dip tank operations  fiberglass installation  sawing  other: | Work-related exposure to:  chemical splashes  extreme heat  extreme cold  sharp or rough edges  irritating chemicals  other: | Can hazard be eliminated without the use of PPE?  Yes No  If no, use: With:  Vest, Jacket  Long sleeves  Coveralls, Body suit  Raingear  Apron  Welding leathers  Abrasion/cut resistance  Other: |
| BODY/WHOLE | | |
| Work activities such as:  building maintenance  construction  logging  computer work  working outdoors  utility work  other: | Work-related exposure to:  working from heights of 10 feet or more  impact from flying objects  impact from moving vehicles  sharps injury  blood  electrical/static discharge  hot metal  musculoskeletal disorders  sparks  chemicals  extreme heat/cold  elevated walking/working surface  working near water  injury from slip/trip/fall  other: | Can hazard be eliminated without the use of PPE?  Yes  No  If no, use: With:  Fall Arrest/Restraint  Hood  Traffic vest  Full sleeves  Static coats/overalls  Flame resistant jacket/pants  Insulated jacket  Cut resistant sleeves/wristlets  hoists/lifts  ergonomic equipment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Other: |
| RESPIRATORY | | |
| Work activities such as:  cleaning  pouring  mixing  sawing  painting  fiberglass installation  compressed air or gas operations  confined space work  floor installation  ceiling repair  working outdoors  other: | Work-related exposure to:  dust or particulate  toxic gas/vapor  chemical irritants (acids)  welding fume  asbestos  pesticides  organic vapors  oxygen deficient environment  paint spray  extreme heat/cold  other: | Can hazard be eliminated without the use of PPE?  Yes No  If no, use: With/Type:  Dust mask  face shield  Half face Respirator  acid/gas cartridges  Full face respirator  organic cartridges  PAPR  Multipurpose cartridges  Supply Air  SCBA |
| EARS/HEARING |  |  |
| Work activities such as:  generator  grinding  ventilation fans  machining  motors  routers  sanding  sawing  pneumatic equipment  sparks  punch or brake presses  use of conveyors  other: | Work-related exposure to:  loud noises  loud work environment  noisy machines/tools  punch or brake presses  other: | Can hazard be eliminated without the use of PPE?  Yes  No  If no, use:  ear muffs  ear plugs |

Appendix E: Training Record (roster)

|  |  |
| --- | --- |
| Course: |  |
| Topics: |  |
| Name of Supervisor/PI: |  |

|  |
| --- |
| Instructions:  Complete this form for **each** personnel member.  Submit this form to EH&S email [allehs@csusb.edu](mailto:allehs@csusb.edu). |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Identification\* | Date  Trained | Student  Initial\*\* | Instructor  Initial\*\*\* |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |

**\*Identification:** Enter your Coyote ID, and/or Email

**\*\*Student Initial:** By my initials I acknowledge that I received and understood training.

**\*\*\*Instructor Initial:** By my initials I certify that the individuals on this roster have successfully passed the course (assessment).

Appendix F: Heat Illness Prevention Procedures Manual

1. **Applicability**

This Heat Illness Prevention Procedures Manual has been created to comply with [California Code of Regulations Title 8, Section 3395, and Heat Illness Prevention](http://www.dir.ca.gov/Title8/3395.html). The Heat Illness Prevention standard is applicable to any outdoor workplace, whenever environmental or personal risk factors for heat illness are present.

1. **Responsibilities**

Department Director/Chair/Deans are responsible for insuring that this written procedures manual is implemented and available to employees, and that training is provided to employees. Supervisorsmust evaluate work conditions before sending employees to perform outdoor work in hot conditions. Cal/OSHA defines a trigger temperature and “shade up” provisions when temperatures reach 80°F, and “high heat” procedures at 95°F. Typically, temperatures above 80°F, especially with heavy physical work activities, would represent conditions where there is a risk of heat illness. Other factors, such as high humidity or work activities restrict the body’s ability to cool itself, such as protective clothing, could result in a risk of heat illness at lower temperatures.

1. **Recognizing Heat Illness Risk Factors**

**Personal Risk Factors**

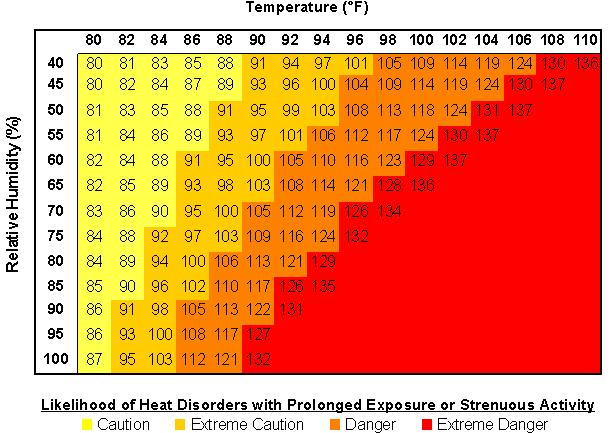
Personal risk factors for heat illness include;

* **General Health & Age:** Those at greatest risk for heat-related illness include people > 65 years old, overweight, ill or taking certain medications. Additional risk factors include; fever, dehydration, heart disease, mental illness, poor circulation, and sunburn.
* **Acclimatization:** the temporary adaptation of the body to work in the heat that occurs gradually with exposure to ambient heat. The body needs time to adapt to working in the heat. When temperatures rise suddenly, an employee is at increased risk for heat illness while their body acclimatizes to the heat. Acclimatization is particularly important for employees who are returning to work after a prolonged absence, recent illness, or recently moving from a cool to hot climate. For heavy work under very hot conditions, a period of 4-10 days of progressively increasing work time is recommended. For less severe conditions, 2-3 days of increasing work activity and duration are recommended (for guidance, see Attachment A).
* **Alcohol & Caffeine:** Alcoholic beverages, coffee, tea or other drinks containing caffeine will dehydrate the body and increase the risk of heat illnesses.

**Environmental Risk Factors**

Environmental risk factors for heat illness are defined in the regulation as working conditions that create the possibility that heat illness could occur, including air temperature, relative humidity, radiant heat from the sun, and other sources, conductive heat sources such as the ground, air movement, workload severity and duration, protective clothing and personal protective equipment worn by employees.

The Heat Index (HI) is the temperature the body feels when heat and humidity are combined. The chart below shows the HI that corresponds to the actual air temperature and relative humidity. This chart is based upon shady, light wind conditions. Exposure to direct sunlight can increase the HI by up to 15°F. This table can be used in consideration of the risk factors and the subsequent need for water, rest and shade. Regardless of the actual ambient temperature, provision of water and shade as described above should be implemented whenever the Heat Index exceeds 90°F. See attachment B for guidance on monitoring the weather.



1. **Identifying Heat Illness**

Heat illness is a group of serious and escalating medical conditions that can result from the body's inability to cope with a particular heat load. These illnesses include heat fatigue, heat cramps, heat exhaustion, and heat stroke. The National Institute of Occupational Safety and Health (NIOSH) publication *Working in Hot Environments* describes the symptoms and response measures for several types of heat illness, as follows:

* **Transient Heat Fatigue:** refers to the temporary state of discomfort and mental or psychological strain arising from prolonged heat exposure. Workers unaccustomed to the heat are particularly susceptible and can suffer, to varying degrees, a decline in task performance, coordination, alertness, and vigilance. The severity of transient heat fatigue will be lessened by a period of gradual adjustment to the hot environment (heat acclimatization).
* **Heat Rash:** also known as prickly heat, is likely to occur in hot, humid environments where sweat is not easily removed from the surface of the skin by evaporation and the skin remains wet most of the time. The sweat ducts become plugged and a skin rash soon appears. When the rash is extensive or when it is complicated by infection, prickly heat can be very uncomfortable and may reduce a worker's performance. The worker can prevent this condition by resting in a cool place part of each day and by regularly bathing and drying the skin.
* **Heat Cramps:** are painful spasms of the muscles that occur among those who sweat profusely in heat, drink large quantities of water, but do not adequately replace the body's salt loss. The drinking of large quantities of water tends to dilute the body's fluids, while the body continues to lose salt. Shortly thereafter, the low salt level in the muscles causes painful cramps. The affected muscles may be part of the arms, legs, or abdomen, but tired muscles (those used in performing the work) are usually the ones most susceptible to cramps. Cramps may occur during or after work hours and may be relieved by taking salted liquids by mouth. CAUTION: Persons with heart problems or those on a low sodium diet who work in hot environments should consult a physician about what to do under these conditions.
* **Heat Exhaustion:** includes several clinical disorders having symptoms which may resemble the early symptoms of heat stroke. Heat exhaustion is caused by the loss of large amounts of fluid by sweating, sometimes with excessive loss of salt. A worker suffering from heat exhaustion still sweats but experiences extreme weakness or fatigue, giddiness, nausea, or headache. In more serious cases, the victim may vomit or lose consciousness. The skin is clammy and moist, the complexion is pale or flushed, and the body temperature is normal or only slightly elevated. In most cases, treatment involves having the victim rest in a cool place and drink plenty of liquids. Victims with mild cases of heat exhaustion usually recover spontaneously with this treatment. Those with severe cases may require extended care for several days. There are no known permanent effects. CAUTION: Persons with heart problems or those on a low sodium diet who work in hot environments should consult a physician about what to do under these conditions.
* **Heat Stroke**: is the most serious of health problems associated with working in hot environments. It occurs when the body's temperature regulatory system fails and sweating becomes inadequate. The body's only effective means of removing excess heat is compromised with little warning to the victim that a crisis stage has been reached. A heat stroke victim's skin is hot, usually dry, red or spotted. Body temperature is usually 105°F or higher, and the victim is mentally confused, delirious, perhaps in convulsions, or unconscious. Unless the victim receives quick and appropriate treatment, death can occur. Any person with signs or symptoms of heat stroke requires immediate hospitalization. However, first aid should be immediately administered. This includes removing the victim to a cool area, thoroughly soaking the clothing with water, and vigorously fanning the body to increase cooling. Further treatment at a medical facility should be directed to the continuation of the cooling process and the monitoring of complications which often accompany the heat stroke. Early recognition and treatment of heat stroke are the only means of preventing permanent brain damage or death.

1. **Prevention Procedures**

**General Prevention**

* Rest in shaded areas
* Stay hydrated
* Avoid vigorous physical activities in hot and humid weather
* At work, if you must perform physical activities in hot weather:
  + Drink plenty of fluids
  + Avoid [alcohol](http://www.medicinenet.com/script/main/art.asp?articlekey=20078), coffee, and tea - may lead to dehydration
  + Take frequent mini-breaks to hydrate yourself
  + As practical; wear hats, light colored, and light/loose clothes

**Provision of Water**

Employees are encouraged to drink water frequently and clean, fresh, and cool potable water shall be readily available to employees.

* Supervisors are responsible to ensure employees have an adequate supply of drinking water (for guidance, see Attachment C).
* Supervisors shall encourage the frequent consumption of small quantities of water, up to 4 cups per hour, when the work environment is hot and employees are likely to be sweating more than usual in the performance of their duties.
* Drinking water will be provided in sufficient quantities to provide one quart per employee per hour for the entire shift (at least 2 gallons per employee for an 8-hour shift).
* If there are effective procedures for replenishing the water supply during the shift, a minimum of 2 quarts of water per employee may be provided at the beginning of the shift.

**Shade and Rest**

A shaded area will be provided which employees may use when they are suffering from heat illness or believe they need a recovery period to prevent heat illness (for guidance, see Attachment D). The shaded area shall be open to the air or ventilated and cooled and access shall be permitted at all times. Canopies, umbrellas or other temporary structures may be used to provide shade, provided they block direct sunlight. Supervisors are responsible for:

* Ensuring that employees have access to shaded or air conditioned areas (i.e. break room) to prevent or recover from heat illness symptoms or to take rest breaks.
* Emphasizing the importance of taking rest breaks and recognizing when a recovery period is needed
* In the event an employee feels discomfort from the heat, accommodating a recovery period to allow the employee to cool down and prevent the onset of heat illness.

**High-Heat Procedures:**

Additional high-heat procedures are required when the temperature equals or exceeds 95 degrees Fahrenheit. These procedures shall include the following to the extent practicable:

* Ensuring that effective communication by voice, observation, or electronic means is maintained so that employees at the work site can contact a supervisor when necessary. An electronic device, such as a cell phone or text messaging device, may be used for this purpose only if reception in the area is reliable.
* Observing employees for alertness and signs or symptoms of heat illness.
* Reminding employees throughout the work shift to drink plenty of water.
* Designating one or more employees on each worksite as authorized to call for emergency medical services, and allowing other employees to call for emergency services when no designated employee is available.
* Conducting pre-shift meetings before the commencement of work to review the high heat procedures, encouraging employees to drink plenty of water, and reminding employees of their right to take a cool-down rest when necessary.
* For Agriculture work sites, employee shall take minimum one 10-minute “preventative cool-down rest period” every 2 hours.

1. **Responding to Heat Illness Emergencies**

**Employee Procedures**

Any employee who recognizes the symptoms or signs of heat illness in themselves or in co-workers should immediately report this condition to their supervisor. When you recognize signs of heat illness in yourself or in a co-worker:

* Move them to a shaded area for a recovery period of at least five minutes
* If the condition appears to be severe or the employee does not recover, then emergency medical care is needed.
* Immediately report to your supervisor any symptoms or signs of your heat illness you may be experiencing or observing in a co-worker
* Call 911 if supervisor is not readily available

**Supervisor Procedures**

Supervisors shall:

* Carry cell phones, radios or other means of communication ensuring emergency services can be called and verifying the radios or other means of communication are functional prior to each shift.
* Know the exact work locations and have clearly written and precise directions to the work site for emergency responders.

**Emergency Contact Procedures**

* Call 911
* Be ready to provide emergency response personnel with directions to work location.
* When working at remote locations you must be able to provide concise directions to emergency response personnel for guidance, see Attachment E)

Further emergency response guidance for supervisors is provided in Attachment F.

**Response to Heat Stroke Symptoms:**

* Victims of heat stroke must receive immediate treatment to avoid permanent organ damage.
* Always notify emergency services (911) immediately. If their arrival is delayed, they can give you further instructions for treatment of the victim.
* If possible, get the victim to a shady area to rest
* Remove heavy or change to lightweight clothing,
* Cool the victim; effective cooling measures include:
* Administering cool, non-alcoholic beverages,
* Applying cool or tepid water to the skin (for example you may spray the victim with cool water from a garden hose),
* Providing a cool shower or sponge bath,
* Move to an air-conditioned environment or fan the victim to promote evaporation,
* Place ice packs under armpits and groins.
* Monitor body temperature with a thermometer and continue cooling efforts until the body temperature drops to 101-102 degrees.

1. **Employee and Supervisor Training**

All employees, including supervisors, who may work outdoors in conditions where there are environmental risk factors for heat illness shall be provided [Heat Illness Prevention training](http://safetyservices.ucdavis.edu/occupational-health-services) on the information contained in this document including;

* Environmental and personal risk factors for heat illness as well as the added burden of heat load on the body caused by exertion, clothing, and personal protective equipment
* Procedures for complying with the Cal/OSHA requirements
* The importance of frequent consumption of water, up to 4 cups per hour, when the work environment is hot and employees are likely to be sweating more than usual in the performance of their duties
* The importance of acclimatization,
* The different types of heat illness and the common signs and symptoms of heat illness,
* Importance to employees of immediately reporting symptoms or signs of heat illness in themselves, or in co-workers,
* Employer's procedures for responding to symptoms of possible heat illness, including how emergency medical services will be provided,
* Procedures for contacting emergency medical services, and if necessary, for transporting employees to a point where they can be reached by an emergency medical service provider including clear and precise directions to the work site

In addition, prior to supervising employees performing work that should reasonably be anticipated to result in exposure to the risk of heat illness, effective training on the following topics shall be provided to the supervisor:

* The supervisor shall be trained on their responsibilities in this heat illness prevention program
* The procedures the supervisor is to follow when an employee exhibits symptoms consistent with possible heat illness, including emergency response procedures
* How to monitor weather reports and how to respond to hot weather advisories

Further information can be found in the attached guidelines.

**Attachment A: Acclimatization Guidance**

When ambient temperatures rise to levels higher than employees are accustomed, supervisors must act effectively by taking the following measures:

* Monitor the weather and be aware of sudden heat wave(s) or increases in temperatures to which employees haven’t been exposed to for several weeks or longer.
* Cut short or re-schedule the work day during a heat wave or heat spike (e.g., a sudden increase in daytime temperature of 9°F or more). During the hot summer months, the work shift may start earlier in the day or later in the evening.
* Lessen the intensity of work for new employees during a two-week break-in period (i.e. scheduling slower paced, less physically demanding work during the hot parts of the day and the heaviest work activities during the cooler parts of the day). New employees may be assigned to a “buddy” or experienced coworker to watch each other closely for discomfort or symptoms of heat illness.
* Closely observe all employees during a heat wave and monitor for possible symptoms of heat illness. For employees working in remote locations, maintain frequent communication by phone or radio.
* Train employees and supervisors on the importance of acclimatization.

**Attachment B: Guidance- Monitoring the Weather**

**Recommended Equipment**:

Supervisors may find a Heat Index chart, radio, cell phone, and thermometer helpful in monitoring the weather. Supervisors can access the internet ([www.nws.nooa.gov](file:///F:\www.nws.nooa.gov)), Google ([www.google.com](http://www.google.com)) for “weather and location zip code”, or check the [Weather Channel TV Network](http://www.weather.com/tv/) to view the extended weather forecast in order to plan in advance the work schedule, know whether a heat wave is expected and if additional schedule modifications will be necessary. Supervisors without internet access can call the California “*Dial a forecast*” numbers:

* Eureka 707-443-7062
* Hanford 559-584-8047
* Los Angeles 805-988-6610(#1)
* Sacramento 916-979-3051
* San Diego 858-297-2107(#1)
* San Francisco 831-656-1725(#1)

**Prior to each workday supervisors should:**

* Review the forecasted temperature and humidity for the worksite and compare it against the National Weather Service Heat Index guideline to evaluate the risk level for heat illness.
  + Employees working in direct sunlight are at greater risk and there is a need to adjust the heat index down 15 degrees F.
* Monitor the weather (using www.nws.nooa.gov or with the aid of a simple thermometer) at the worksite. This critical weather information will be taken into consideration, to determine when it will be necessary to make modifications to the work schedule (such as stopping work early, rescheduling the job, working at night or during the cooler hours of the day, increasing the number of water and rest breaks).
* Use a thermometer at the work location and check the temperature every 60 minutes to monitor for sudden increases in temperature, to ensure that once the temperature exceeds 80°F, the shade structures are opened and accessible to the workers and to make certain that once the temperature equals or exceeds 95°F additional High Heat Procedures are implemented.

**Attachment C: Guidance on provision of water**

**Recommended Equipment**:

* Water and drink containers, ice, cleaning equipment, whistle or horn

**Supervisors must ensure;**

* Drinking water containers (5 to 10 gallons each) are brought to the site, so that at least 2 quarts per employee are available at the start of the shift.
* Drink containers ensuring enough disposable cups are made available for each worker and are kept clean until used.
* The water level of all containers every 30-60 minutes and more frequently when the temperature exceeds 90°F. When the water level within a container drops below 50%, water containers will be refilled with cool water. Additional water containers (i.e. 5 gallon bottles) will be available to replace water as needed.
* When the temperature exceeds 90°F carry ice in separate containers, so that when necessary, it will be added to the drinking water to keep it cool.
* Check the work site and place the water as close as possible to the employees (i.e. no more than 50-100 feet from the workers). If field terrain prevents the water from being placed as close as possible to the workers, bottled water or individual containers (in addition to disposable cups and water containers), will be provided so that workers can have drinking water readily accessible.
* Water containers will be relocated to follow along as the work moves, so drinking water will be readily accessible.
* Encourage employees to frequently consume small quantities of water, up to 4 cups per hour, when the work environment is hot and employees are likely to be sweating more than usual in the performance of their duties.
* Provide clean water containers and keep in sanitary condition
* Advise employees of the daily location of the water coolers and remind them to drink water frequently. When the temperature exceeds or is expected to exceed 90°F, hold a brief ‘tailgate’ meeting each morning to review with employees the importance of drinking water, the number and schedule of water and rest breaks and the signs and symptoms of heat illness.
* Use audible devices (such as whistles or air horns) to remind employees to drink water.
* Increase the number of water breaks when the temperature equals or exceeds 95°F or during a heat wave remind workers throughout the work shift to drink water.
* Stress during employee training, the importance of frequent drinking of water.

**Attachment D: Access to Shade requirements**

**Recommended Equipment:**

* Portable canopies, large beach-style umbrellas, or other shade structures, also; chairs, benches, sheets, towels,

**Supervisors must ensure:**

* Shade structures are brought to the site, to accommodate the employees on the shift and either chairs, benches, sheets, towels or any other items to allow employees to sit in a normal posture fully in the shade without having to be in physical contact with each other or the bare ground. However, chairs, benches, etc. are not required for acceptable sources of shade such as trees.
* Shade structures are opened and placed as close as practical to the workers, when the temperature equals or exceeds 80°F. When the temperature is below 80°F, the shade structures will be brought to the site, but will be opened and set in place upon worker(s) request. Note: The interior of a vehicle may not be used to provide shade unless the vehicle is air-conditioned and the air conditioner is on.
* Point out the daily location of the shade structures to the workers as well as allow and encourage employees to take a cool-down rest in the shade, when they feel the need to do so to protect themselves from overheating.
* Ensure shade structures are relocated to follow along with the employee work groups and double-check they are as close as practical to the employees, so that access to shade is provided at all times. In situations where trees or other vegetation are used to provide shade (such as in orchards), the supervisor will evaluate the thickness and shape of the shaded area (given the changing angles of the sun during the entire shift), before assuming that sufficient shadow is being cast to protect employees.
* For non-agricultural employers, in situations where it is not safe or feasible to provide shade, steps are taken to provide shade upon request or other alternative cooling measures with equivalent protection.

**Exceptions:**

* Where the employer can demonstrate that it is infeasible or unsafe to have a shade structure, or otherwise to have shade present on a continuous basis, the employer may utilize alternative procedures for providing access to shade if the alternative procedures provide equivalent protection.

* Except for employers in the agricultural industry, cooling measures other than shade (e.g., use of misting machines) may be provided in lieu of shade if the employer can demonstrate that these measures are at least as effective as shade in allowing employees to cool.

**Attachment E: Work Planning and Site Checklist**

**Required when temperatures are expected to exceed 80°F.**

Department/Group/Project\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Supervisor Name and Phone Number\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Worksite Location (specific enough for emergency response, use landmarks if needed):

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Expected Temperature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Employees covered (use back as needed): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Checklist Completed by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Drinking Water Availability** At least one quart (4 cups) required per employee per hour for the entire shift, i.e. an 8 hour shift requires 2 gallons per employee   Plumbed water  Water cooler provided  Bottled water provided  Other, describe below: |
| **How will employees be provided access to sufficient drinking water? For backcountry trips or other work in remote locations describe expected natural water sources and treatment methods (e.g. filtration, boiling, chemical disinfection).** |
| **Shade** May be provided by any natural or artificial means that does not expose employees to unsafe or unhealthy conditions. Shade is not considered adequate when heat in the area does not allow the body to cool (e.g. sitting in a hot car).   Building structures  Trees  Temporary Canopy/Tarp  Vehicle with A/C  Other, describe below: |
| **How will employees be provided access to adequate shade?** |
| **Emergency Medical Procedures** All employees must be able to provide clear and precise directions to the work site  Cell phone service available  If no cell service, describe emergency plan below: |
| **What are the procedures for contacting emergency medical services, and if necessary, for transporting employees to a point where they can be reached by an emergency medical service provider? Where is the nearest phone? (use back as needed)** |
| **For remote locations, list employees on site trained in First Aid and verify that a field safety plan in place and available:** |
| **High Heat Procedures - Required when temperatures expected to exceed 95° F**  If possible limit strenuous tasks to morning or late afternoon hours. Rest breaks in shade must be provided at least 10 minutes every 2 hours (or more if needed). Effective means of communication, observation and monitoring for sign of heat illness is required at all times. **Pre-shift meeting required.**   Direct supervision  Buddy system  Reliable cell or radio contact  Other, describe below: |
| **List names of any new employees working in heat for less than 14 days that must be supervised at all times:** |
| **First Aid Reference and Emergency Response - Signs and Symptoms of Heat Illness** |
| |  |  |  | | --- | --- | --- | | **Signs & Symptoms** | **Treatment** | **Response Action:** | | **HEAT EXHAUSTION**   * Dizziness, headache * Rapid heart rate * Pale, cool, clammy or flushed skin * Nausea and/or vomiting * Fatigue, thirst, muscle cramps | 1. Stop all exertion. 2. Move to a cool shaded place. 3. Hydrate with cool water. | The most common type of heat illness. Initiate treatment. If no improvement, call 911 and seek medical help. Do not return to work in the sun. Heat exhaustion can progress to heat stroke. | | **HEAT STROKE**   * Disoriented, irritable, combative, unconscious * Hallucinations, seizures, poor balance * Rapid heart rate * Hot, dry and red skin (possibly moist and pale) * Fever, body temperature above 104 °F | 1. Move (gently) to a cooler spot in shade. 2. Loosen clothing and spray exposed skin with water and fan. 3. Cool by placing ice or cold packs along neck, chest, armpits and groin. 4. Do not place ice directly on skin. | **Call 911 or seek medical help immediately.**  **Heat stroke is a life threatening medical emergency. A victim can die within minutes if not properly treated. Efforts to reduce body temperature must begin immediately!** | |
| **Other Notes**  **(Attach other documents, maps, etc. as needed)** |

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| **Related Resources** |
| Emergency Medical Response: 911  Campus Police Emergency Number: (909) 537-5999  Weather Forecasts: <http://www.wunderground.com/> or <http://www.weather.gov/>  Office of Environment, Health & Safety: <https://www.csusb.edu/ehs>  CSUSB Heat Illness Prevention Fact Sheet: <https://www.csusb.edu/ehs/policies-and-procedures>  Cal/OSHA Heat Illness Information and Regulations: <https://www.dir.ca.gov/dosh/heatillnessinfo.html> |

**Attachment F: Remote Location Emergency Response Information**

Work Location: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (include map for remote locations)

Directions to the Work Location:

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Nearest Medical Care facility:

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions to Medical Care facility:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Indicate means of communication:

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Phone Number (if applicable):

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Means of transport to nearest Medical Care location:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Attachment G: Emergency Response Guidance**

**Recommended Equipment:**

First aid kit, radios, cell phones, or other forms of communication; flashlights, reflective vests

**Written Response Procedures:**

Supervisors must have a written response procedure developed for each location or department. This must include having a map along with clear and precise directions (such as streets or road names, distinguishing features and distances to major roads) at a remote, off-campus site, to avoid a delay of emergency medical services.

Prior to starting work, supervisors must;

* During a heat wave or hot temperatures, remind and encourage workers to immediately report to their supervisor any signs or symptoms they are experiencing.
* Ensure a qualified, appropriately trained and equipped person will be available at the site, to render first aid if necessary.
* Determine if a language barrier is present at the site and take steps to ensure emergency medical services can be immediately called in the event of an emergency.
* Carry cell phones or other means of communication, to ensure that emergency medical services can be called and check that these are functional at the worksite prior to each shift

**Emergency Response:**

* Take immediate steps to keep the stricken employee cool and comfortable once emergency service responders have been called (to reduce the progression to more serious illness).
* At remote locations such as rural farms, lots or undeveloped areas, designate an employee or employees to physically go to the nearest road or highway where emergency responders can see them.
* If daylight is diminished, the designated employee(s) shall be given reflective vest or flashlights in order to direct emergency personnel to the location of the worksite, which may not be visible from the road or highway.

**Attachment H: Heat Illness Prevention Program Compliance Checklist**

**Department/Unit:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Supervisor:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Completed by:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- |
| **Heat Illness Program** | | | | |
|  | **Yes** | **No** | **Comments** |
| Do employees perform work outdoors, or in indoor areas where Heat Illness is likely to occur? |  |  | If **no**, Heat Illness Protection Program not required. |
| Have employees reviewed CSUSB Heat Illness Program manual? |  |  | If **no**, direct employees to review CSUSB Heat Illness Program Manual. |
| **Training** | | | | |
| Have employees received documented Heat Illness Training? |  |  | If **no**, ensure employees receive Heat Illness training |
| Have the supervisors received documented Supervisor Heat Illness training? |  |  | If **no**, ensure supervisors receive documented Supervisor Heat Illness training (available through EHS). |
| **Heat Illness Prevention Measures** | | | | |
| Have employees been given time to acclimate to their environment? (Gradually exposed to regular working conditions for a least four to fourteen days for at least two hours per day in the heat.) |  |  | If **no**, closely monitor employee(s) for signs and symptoms of heat illness and allow employee(s) to acclimate before performing strenuous work in heat. |
| Do employees have access to shade? (Shade means the blockage of direct sunlight. Shade is not considered adequate when heat in the area of shade defeats the purpose of shade, which is to allow the body to cool (e.g. sitting in a hot car). Shade may be provided by any natural or artificial means that does not expose employees to unsafe or unhealthy conditions.) |  |  | If **no**, develop and implement procedures for providing shade to employees. |
| Are employees provided or do they have access to sufficient drinking water? (At least one quart per employee per hour for drinking for the entire shift.) |  |  | If **no**, develop and implement procedures for providing access to sufficient drinking water. |
| Are employees allowed and encouraged to rest in the shade for a period of no less than five minutes at a time when they feel the need to do so to protect themselves from overheating? |  |  | If **no**, allow and encourage employees to take breaks in a cool, shaded area as needed to allow the body to cool and dissipate internal heat load. |
| Do supervisors monitor weather conditions and when possible schedule outdoor work during cooler times of the day to reduce the risk of heat illness? |  |  | If **no**, Supervisors are responsible for monitoring weather conditions and scheduling work appropriately. |
| Are new employees closely monitored by a supervisor or designee for the first 14 days of the employee's employment by the employer when temperatures exceed 80º F |  |  | If **no**, develop procedures to closely monitor employees for the first 14 of employment when temperatures exceed 80º F. |
| **Emergency Medical Procedures** | | | | |
|  | **Yes** | **No** | **Comments** |
| Are there procedures for contacting emergency medical services, and if necessary, for transporting employees to a point where they can be reached by an emergency medical service provider? |  |  | If no, develop procedures. Special procedures may be necessary for remote/off-site workers. |
| Are there procedures for ensuring that, in the event of an emergency, clear and precise directions to the work site can and will be provided as needed to emergency responders? These procedures shall include designating a person to be available to ensure that emergency procedures are invoked when appropriate. |  |  | If no, develop procedures. Special procedures may be necessary for remote/off-site workers. |
| Have employees been trained on these procedures? |  |  | If **no,** train employees on Emergency Medical Procedures. |
| **High Heat Procedures** (only required for agricultural, construction, landscaping and transportation workers when temperatures exceed 95º F) | | | | |
| Do employees perform agricultural work, construction, landscaping, or transportation and loading/unloading of heavy goods? |  |  | If **yes**, High Heat Procedures must be implemented when temperatures exceed 95º F. (See High Heat Procedures section below.)  If **no**, High Heat Procedures not required to be implemented but are recommended to be used as needed to ensure employees’ safety. |
| Are effective means of communication by voice, observation, or electronic means maintained so that employees at the work site can contact a supervisor when necessary in place when temperatures exceed 95º F? (An electronic device, such as a cell phone or text messaging device, may be used for this purpose only if reception in the area is reliable.) |  |  | If **no**, develop procedures to ensure effective means of communication are in place when temperatures exceed 95º F. |
| Are new employees closely monitored by a supervisor or designee for the first 14 days of the employee's employment by the employer when temperatures exceed 95º F? |  |  | If **no**, develop procedures to closely monitor employees for the first 14 of employment when temperatures exceed 95º F. |
| Are employees observed for alertness and signs or symptoms of heat illness when temperatures exceed 95º F? |  |  | If **no**, observe employees for signs and symptoms of heat illness when temperatures exceed 95º F. |
| Are there Pre-shift meetings before the commencement of work to review the high heat procedures, encourage employees to drink plenty of water, and remind employees of their right to take a cool-down rest when necessary |  |  | If **no**, schedule pre-shift meetings when temperatures exceed 95º F. |
| **Notes** | | | | |
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