



**INJURY ILLNESS PREVENTION PROGRAM** 



This sheet should be completed each time the Hazard Communication Safety Program is reviewed and/or modified. The Director of Safety and Risk Management is responsible for the review and update this document annually or more frequently as determined or needed per CSU Chancellor's Executive Order 1039 Occupational Health and Safety Policy, 1069 Risk Management as well as Cal Maritime A&F Policy 09-004 IIPP.

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# 1.0 Purpose & Scope

The purpose of the Injury Illness Prevention Program (IIPP) is to outline Cal Maritime's environmental health and safety requirements, expectations, and responsibilities in order to achieve effective campus safety performance through Integrated Safety Management (ISM). The **Hazard Communication (HazCom) Safety Program** is a subject specific component the supports the overall University IIPP.

The California State University Maritime Academy is committed to providing a safe and healthy work environment for faculty, staff and students. The Cal Maritime Hazard Communication Program (HazCom) has been developed to improve communication and training associated with the use, handling, and storage of hazardous chemicals. The program is designed to increase employee awareness of the hazardous chemicals used in the workplace by providing information about the hazardous chemicals, identifying the associated hazards and harmful effects, and how to protect themselves from the risks of those hazards.

This document uses the Globally Harmonized System (GHS) for classification and labeling of chemicals which was incorporated into the 2013 Cal/OSHA Hazard Communication Standard (California Code of Regulation (CCR), *Title 8, §5194*). From 2013 through 2016, Cal Maritime will be transitioning from the previous standard requirements to the new requirements. By July 1, 2016, Cal Maritime will incorporate all the changes into its HazCom Program.

This Manual applies to all Cal Maritime operations, maintenance and construction activities under the supervision of Cal Maritime personnel. For activities associated with the Training Ship Golden Bear (TSGB) refer to the Vessel Operating Manual (VOM) and/or Shoreside Administrative Manual (SAM). The TSGB is a subject specific component that supports the overall University IIPP.

### 1.1 Regulatory Standards Reference

Cal Maritime and its subcontractors shall comply with the following requirements.

In case of conflict or overlap of the below references, the most stringent provision shall apply.

- Occupational Safety and Health Act (OSHA), 1904, 1910, 1915,1917,1918,1926
- California Code of Regulations (CCR), Title 8, GISO, CSO, ESO
- Cal/OSHA Hazard Communication Standard (§5194).

### 1.2 CSU-System & Cal Maritime Specific Reference

For additional information on Cal Maritime environmental health and safety policies, refer to:

- CSU Executive Order 1039, 1056, 1069
- Cal Maritime Policy AF 09-003, AF 09-004

### 1.3 Other Resources

- N U. S. Department of Transportation (*DOT*)
- National Fire Protection Association (NFPA)
- Hazardous Materials Identification System (HMIS)

# CAL MARITIME

# **Hazard Communication Safety Program**

### 2.0 Administrative Duties & Responsibilities

It is the policy of the Cal Maritime to maintain a safe and healthy work environment for each employee (including student and contract employees), and to comply with all applicable occupational health and safety regulations. This Injury and Illness Prevention Program (IIPP) is intended to establish a framework for identifying and correcting workplace hazards within the department, while addressing legal requirements for a formal, written IIPP.

To assist Cal Maritime in providing a safe, compliant, environmentally sound, and more sustainable operation, each department or operational unit is expected to review, understand, and follow the guidance provided in the Injury Illness Prevention Program components and the and the function of the integrated campus safety management system (ICSMS) as related to operations under their control.

In a proactive behavior based environmental health and safety model that entire campus community participation reflects a process that embraces the ability to;

- Eliminate adverse conditions which may result in injury or illness,
- Recommend the establishment of programs to raise safety consciousness in the community, and
- Achieve and maintain a beneficial relationship through continuing communication on issues relating to environmental health and occupational safety.

### 2.1 Employees (Including Student workers)

It is the responsibility of all faculty and staff to proactively participate and subsequently comply with all applicable health and safety regulations, Cal Maritime policies, and established safe work practices. This includes, but is not limited to:

- Observing health and safety-related signs, posters, warning signals and directions.
- Learning about the potential hazards of assigned tasks and work areas.
- Taking part in appropriate health and safety training.
- Following all safe operating procedures and precautions.
- Participating in workplace safety inspections
- Using proper personal protective equipment.
- Inform coworkers and supervisors of defective equipment and other workplace hazards without fear of reprisal.
- Reviewing the building emergency plan and assembly area.
- Reporting unsafe conditions immediately to a supervisor, and stopping work if an imminent hazard is presented.

### 2.2 Department of Safety and Risk Management (SRM)

The Director of Safety and Risk Management (SRM), as delegated by the University President, is responsible for the implementation and administrative management for Cal Maritime's Injury Illness Prevention Program (IIPP) that meets the requirements of California Code of Regulations (CCR), Title 8, section 3203) as well as other applicable California and Federal Occupational Safety and Health (Cal-OSHA) requirements.

Further responsibilities are outlined below:

- Provide advice and guidance to all university personnel concerning IIPP compliance requirements;
- Provide centralized monitoring of campus activities related to implementation of campus IIPP;
- Ensure scheduled periodic safety inspections are performed in compliance with regulatory requirements and assist management staff in identifying unsafe or unhealthful conditions;
- Ensure safety and health training programs comply with regulatory requirements and university policy;
- Oversee the maintenance of safety and health records consistent with the requirements of this document and regulatory mandates;
- Ensure program audits, both scheduled and as required by a process, equipment or personnel change, or by a safety program mandate, are performed;

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- Interpret existing or pending safety and health legislation and recommend appropriate compliance strategies to university personnel;
- Maintain centralized environmental and employee monitoring records, allowing employee access as directed by law.
- Conduct at least an annual review of this document and make the current revision available on the SRM web site.

### 2.3 Deans, Directors, Department or Operating Unit Management

Campus Department or Operating Unit Head leadership have an integral campus role and shall have a thorough understanding of Injury Illness Prevention Program components and the function of the integrated campus safety management system (ICSMS) as related to operations under their control.

- The Department Head has primary authority and responsibility to ensure the health and safety of the department's faculty, staff and students through the implementation of the Injury Illness Prevention Program components. This is accomplished by communicating the Cal Maritime's campus emphasis on health and safety, analyzing work procedures for hazard identification and correction, ensuring regular workplace inspections, providing health and safety training, and encouraging prompt employee reporting of health and safety concerns without fear of reprisal.
- Specific areas include employee and student (both student employees and students in academic programs) education
  and training, identification and correction of unsafe conditions, and record keeping. It is recognized that a substantial
  amount of responsibility falls at this level.
- Colleges and Departments are encouraged to designate an individual as the College or department safety coordinator, to assist with specific operational environmental health and safety process management components.

### 2.4 Supervisors and Principal Investigators

Supervisors play a key role in the implementation of the Cal Maritime's Injury Illness Prevention Program components. Supervisors may be Management, Senior Research Associates, Department Chairs, Principal Investigators, or others who oversee a project and/or staff. They are responsible for but not limited to:

- Communicating to their staff and students about Cal Maritime campus's emphasis on health and safety.
- Ensuring periodic, documented inspection of workspaces under their authority.
- Promptly correcting identified hazards.
- Modeling and enforcing safe and healthful work practices.
- Providing appropriate safety training and personal protective equipment.
- Implementing measures to eliminate or control workplace hazards.
- Stopping any employee's work that poses an imminent hazard to either the employee or any other individual.
- Encouraging employees to report health and safety issues without fear of reprisal.

### 2.5 Academic Programming Faculty and Advisors

It is the responsibility of Faculty, Academic Programming Advisors other Cal Maritime related activities and student clubs to:

- Develop procedures to ensure effective compliance and support of the Injury and Illness Prevention Program components as it relates to operations under their control. Specific areas of responsibility include student education and training, identification and correction of unsafe conditions, and incident reporting.
- Develop and maintain written classroom, laboratory, and activity procedures which conform to regulatory, campus and departmental guidelines.
- Instruct students in the recognition, avoidance, and response to unsafe conditions, including hazards associated with non-routine tasks and emergency operations
- Permit only those persons qualified by education and training to operate potentially hazardous equipment or use hazardous materials, unless under close supervision.
- Supervise students in the performance of activities.

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### 2.6 Students- Cadets

Students are expected to always adhere to safety practices presented by faculty, technical staff, student assistants, graduate assistants or other authorized individuals. They must also report potentially hazardous conditions that become known to them. These reports should be made to their supervisors, faculty advisers, Department of Safety and Risk Management, or other responsible parties.

### 2.7 Chemical Users

- Is trained on and applies "Safe-Work Rules" for users as outlined in this program.
- Always selects and uses a chemicals in a safe manner.
- Visual inspect prior to use.
- Alerts Owner Department Management when equipment need repair/replacement.
- Assesses work to determine if fall protection should be worn and seeks alternative access methods instead of hand and/or power tools if need be.
- Proactively use Stop Work Authority when they feel there is an unsafe condition present by means of communicating
  with Department Management and SRM to work collaboratively to resolve and improve identified or perceived
  condition.

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### 3.0 Process Management

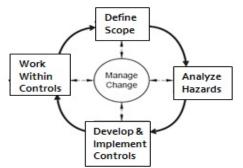
### 3.1 Hazard Identification, Risk Assessment & Control (HIRAC)

### 3.1.1 Integrated Safety Management (ISM)

Cal Maritime is committed to having all campus-related work performed safely and in a manner that strives for the highest degree of protection for the Campus Community. To achieve these goals, Cal Maritime implements, the principles of safety through an Integrated Campus Safety Management System (ICSMS).

Simply put, ICSMS applies a plan-do-check-act approach to campus safety management. Five core activities represent the plan-do-check-act approach, and comprise the underlying process for any construction work activity. The five core activities are:

- 1) Define the Scope of Work
- 2) Analyze the Hazards
- 3) Develop and Implement Hazard Controls
- 4) Perform Work Within Controls
- 5) Provide Feedback and Manage Change



The identification and analysis of workplace hazards is part of the pre-work planning process. The goal of this core activity is to ensure that the hazards associated with construction work activities are clearly understood and appropriately managed. All new campus work activities, changes to existing work or introduction of new equipment or processes (which introduce new hazards or increase the hazard level) need to be reviewed to analyze hazards, identify safety standards/requirements, and establish appropriate controls. Safety conditions and requirements need to be formally established and in place before construction work is initiated.

The campus Job Hazards Analysis (JHA) process is the principle method for achieving this.

### 3.1.2 Hazard Identification, Risk Assessment & Determining Control Table (HIRAC)

The EHS Hazard Identification, Risk Assessment and Determining Control Table (HIRAC) process is used to identify, assess and risk-rank Cal Maritime campus-related activities in order to ensure that Cal Maritime Campus Safety programs, activities and work controls are appropriately addressing construction risks. The initial HIRAC assessment and risk-ranking of campus-related activities was conducted during the third quarter, AY 2016-2017. The HIRAC assessment will be reviewed annually, when new campus-related activities are introduced that create or modify assessed risks, and when worksite observations or accident/incident experience identify previously unrecognized or incorrectly categorized risks.

### 3.1.3 Application of Hierarchy of Controls

In developing hazard controls and preparing the Job Hazard Analysis submittal, the campus shall select means and methods to mitigate worker exposure to workplace hazards using the Hierarchy of Controls as specified in the American National Standards Institute (ANSI) Z10-2005 Occupational Health and Safety Management Systems.

The campus shall make a good faith effort to analyze each hazard and identify the appropriate control(s) using the following hierarchy:

- Elimination or substitution of the hazards where feasible and appropriate;
- Use of engineering controls where feasible and appropriate;
- Application of work practices and administrative controls that limit worker exposures; and
- Provision and use of personal protective equipment

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### 3.1.4 Job Hazards Analysis (JHA)

For the purposes of this section Job Hazard Analysis (JHA) and Job Safety Analysis (JSA) can be used synonymously. A JHA/JSA can be incorporated into a Pre Task Plan, provided there is a section for employees to review, comment and sign. Core components of the scope of work and relative hazards can be electronically completed ahead of time, provided there is room for current site conditions are able to be readily added as applicable. When the scope or conditions change, the change in work plan should be noted in a different colored pen with employee's initially that they have been briefed on the change. The Department of Safety and Risk Management will work with individual Departments to develop a master Campus JHA library.

- Each employee scheduled to work in the activities identified below shall receive safety training in those activities prior to working on them.
- Subcontractors shall submit a Job Hazards Analysis (JHA) for those construction activities meeting the requirements for performing JHA (see below). The JHA shall be reviewed and authorized to proceed by the Cal Maritime Department of Safety and Risk Management before work commences.
- Subcontractor shall be responsible for submitting a JHA and work procedures to Cal Maritime Department of Safety and Risk Management for review a minimum of seven days prior to the start of work for most work activities.

### 3.1.4.1 JHA Requirements

A JHA shall be written based on the following conditions:

- Jobs with the highest injury or illness rates
- Jobs with the potential to cause severe or disabling injuries or illness, even if there is no history of previous accidents
- Jobs in which one simple human error could lead to a severe accident or injury
- Jobs that are new to your operation or have undergone changes in processes and procedures
- Jobs complex enough to require written instructions.

If not otherwise specified in a particular project specification, the JHA shall be performed in accordance with the OSHA 3071.

JHA processes. In general the JHA will include:

- Description of work phase or activity
- Identification of potential hazards associated with the activity
- Address further hazards revealed by supplemental site information (e.g., site characterization data, as-built drawings) provided by the subcontractors construction manager.
- A list of the Subcontractor's planned controls to mitigate the identified hazards
- Identification of specialized training required
- Identification of special permits required
- Name of the Subcontractor's Competent Person(s) responsible for inspecting the activity and ensuring that all proposed safety measures are followed.

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# 3.2 Hazard Assessment

$\triangle$	riangle Note: Each work task will have its own JHA, refer to the JHA Library for more details.					
	GENERAL HAZAR	D IDENTIFICA	ATION & CONTROL MEASURES FOR CHEMICAL & EQUIPMENT USE			
TASK	HAZARD		HAZARD CONTROLS & PROTECTION MEASURES			
	Trip or fall hazards	<u></u>	Walking/working surfaces training for working around uneven, wet and slippery surfaces (includes warning to others of slippery surfaces); use cord cover and keep out of traffic areas			
ш	Cuts, crush, pinch, etc. during operation and/or maintenance of equipment		★ Keep protective guards in place; disconnect from power source before servicing; use lockout-tagout; use PPE; keep away from power lines			
ENT USE	Periodic lifting/climbing/bendin g/stooping		Use proper lifting techniques; Ergonomic training; use dolly/cars.			
CHEMICAL & EQUIPMENT	Exposure to hazardous and carcinogenic chemicals		Wear PPE (gloves, respirators, safety glasses, etc.) as appropriate; refer to MSDS; report spills immediately; practice universal precautions; prohibit eating & drinking in work areas; use fume hood whenever necessary; ensure fume hood is working properly; keep small quantities of keep chemicals to limits size of spills; eliminate use carcinogenic materials as much as possible; limit exposure to know substances and use protective coverings; have absorbent materials handy in case of spills; refer to materials safety data sheet			
CHEN	Cuts/punctures from sharp instrument		<ul> <li>Use caution and proper techniques; sterilize equipment;</li> <li>use sharps containers</li> </ul>			
	Skin burns, eye/nasal irritation, spills		<ul> <li>Good ventilation, chemicals stored in small quantities to keep spills to minimum and to provide easy handling.</li> <li>Store flammables in fire- resistant cabinets.</li> <li>Have absorbent materials readily available in case of spills</li> </ul>			
	Potential electrical shock	4	Avoid working around electrical equipment or outlets; ensure insulation on electrical cord is unbroken			
			TRAINING REQUIREMENTS			
1	DO NOT use this eq		an instructor or shop supervisor has instructed you in the safe use and operation d has authorized you to operate this equipment.			
√ IIF	PP ✓ Dept. Specif		✓ Operators/Owner's Manual ✓ Other:			

PERSONAL PROTECIVE EQUIPMENT

PERSONAL PROTECIVE EQUIPMENT





















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Eye Protection	Foot Protection	Hand Protection	Hearing Protection	Body Protection	Head Protection	Respiratory Protection	Fall Protection	Face Shield	OTHER
When exposed to eye or face	When working in areas where	When hands are exposed to hazards	When exposed to a time	When exposure to: Intense heat, hot metals, other	Where there is a potential for	May be required if removal of	When there is a risk of falling from	Face shield can be used over the	
hazards from flying	there is a danger of	such as those from	weighted average	hot liquids Impacts from	injury to the head from	contaminants from the air	a height greater	glasses if there is a	
particles, molten metal, liquid	foot injuries due to falling or	skin absorption of harmful	noise level of 85 dBA or higher over	materials that can cut, burn Hazardous	falling objects and/or	does not fall below permissible	than 4ft GSO 6ft CSO	presence of a lot of flying debris.	
chemicals, acids or caustic	rolling objects, or objects	substances; severe cuts or	an 8 hour work shift.	chemicals Or potentially infectious	when there is a risk of impact to	exposure level.	6ft MSO When working in		
liquids, chemical gases or	piercing the sole, or will protect the	lacerations; severe abrasions;		materials	head		confined space		
vapors, or potentially	affected	punctures; chemical							
injurious light radiation		burns							

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### 3.3 General Safety Requirements

#### 3.3.1 Hazardous Chemical Identification and Classification

Hazardous chemicals include, but are not limited to, the following:

- "The Hazardous Substance List," commonly known as the Directors List of Hazardous Substances, 8 CCR §339;
- "Toxic and Hazardous Substances, Air Contaminants," 8 CCR §5155;
- "Threshold Limit Values for Chemical Substances in the Work Environment," American Conference of Governmental Industrial Hygienists, updated annually;
- "12th Report on Carcinogens," National Toxicology Program, 2011;
- "Monographs," International Agency for Research on Cancer, World Health Organization;
- SDSs for reproductive toxins and cancer causing substances; and
- Any other substance that may present a physical or health hazard as determined by scientific evidence.

Hazardous chemicals can be identified by the hazard classifications noted on manufacturer labels and SDSs. Common hazard classifications include flammable, corrosive, toxic and carcinogen.

### 3.3.2 Chemical Inventory

#### **General Requirements**

All departments that use, handle or store hazardous chemicals must maintain an inventory of the hazardous chemicals present in their work areas. Inventories must be entered in the Cal Maritime CIS, the online inventory system managed by SRM.

### **Consumer Products**

Consumer products must be included in the chemical inventory if the employee exposure to the product is significantly greater than the consumer exposure occurring during the principal consumer use of the product. However, certain minimal inventory thresholds are required for other reporting agencies such as Certified Unified Program Agency (CUPA).

### **Chemical Inventory System (CIS)**

The following CIS links is available on the Safety & Risk Management webpage by simply selecting the MSDS icon.

### 3.4 Safety Data Sheets (SDS)

#### **General Requirements**

Departments must maintain copies of any SDS received with incoming shipments of hazardous chemicals, obtain SDS of hazardous chemicals if received without an SDS, and shall ensure that SDSs are readily accessible during each work shift. SDSs may be maintained in electronic form so long as there are no barriers to employee access.

### 3.4.1 Globally Harmonized System Format

By June 2015, all SDSs must be GHS-compliant. SDSs will have a consistent 16-section format with the following sections (see Appendix B for details):

- Section 1: Identification
- Section 2: Hazard(s) Identification
- Section 3: Composition/Information on Ingredients
- Section4: First Aid Measures
- Section 5: Fire-Fighting Measures
- Section 6: Accidental Release Measures
- Section 7: Handling and Storage
- Section 8: Exposure Control/Personal Protection
- Section 9: Physical and Chemical properties
- Section 10: Stability and Reactivity

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- Section 11: Toxicological Information
- Section 12: Ecological Information (non-mandatory)
- Section 13: Disposal Considerations (non-mandatory)
- Section 14: Transportation Information (non-mandatory)
- Section 15: Regulatory Information (non-mandatory)
- Section 16: Other Information

#### 3.4.2 Trade Secrets

Manufacturers and importers may withhold the specific chemical identity of a hazardous chemical with certain "trade secret" provisions. Contact SRM for assistance with addressing "trade secret" information.

#### 3.4.3 Obtaining SDSs

SDSs can be obtained by:

- Requesting copies from your supervisor
- Contacting the vendor directly
- Performing an internet search by entering the product name followed by MSDS
- Contacting SRM for assistance

### 3.5 Labels and Other Forms of Warning

#### **General Requirements**

Every container of a hazardous chemical, except containers that will contain chemicals for immediate use, must be labeled, tagged, or marked to identify the substance and appropriate hazard warnings.

#### 3.5.1 Manufacturer Labels

The manufacturer's original label shall provide:

- Identity of the hazardous substance;
- Signal word;
- Hazard statement(s);
- Pictograms;
- Precautionary statement(s); and
- Name and address of the manufacturer, importer or responsible party.

### Labels shall be:

- Legible;
- In English; and
- Prominently displayed on the container.

The original label **shall not** be removed or defaced unless the container is immediately marked with the required information.

### 3.6 Workplace Labels

#### **Minimum Requirements**

- Every container of a hazardous chemical must be labeled, tagged, or marked, in English, to identify the chemical and to provide appropriate hazard warnings;
- Portable secondary (workplace) containers used immediately by the person performing the transfer do not need labels; and
- Non-hazardous substances (e.g., distilled water) should be labeled in order to avoid confusion.

### 3.6.1 Acceptable labeling conventions

Best practice is to include all information that is provided on the manufacturer's label.

If a set of abbreviations is used routinely in the work area, definitions of the abbreviations must be posted in a

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prominent place in the work area and available to all employees.

- Alternative methods such as signs, placards, process sheets, and operating procedures are acceptable for
  individual stationary process containers, provided that the information is conveyed to all affected persons.
   Commonly used labeling systems include Department of Transportation, National Fire Protection Association and
  Hazardous Materials Identification System.
- Examples of acceptable labeling conventions include:

Small volume containers such as micro-scale test tubes and vials can be placed in a rack and the rack can be labeled with the name of the hazardous chemical and the appropriate hazard;

- Containers are labeled with a symbol and a sign is posted defining the meaning of the symbol; the posted information must include the name of the hazardous chemical and the appropriate hazard; and
- Secondary container labeled with unique product or common name must also contain the appropriate hazard warning; example "concentrated Accel-corrosive."

#### 3.6.2 Workplace Signage

The poster "Safety Data Sheets, Labels, and Hazardous Chemical Emergencies," must be displayed in all areas where hazardous chemicals are used, handled or stored. Departments must fill in all blank spaces (e.g., location of SDSs) on the poster.

#### 3.6.3 Labeled/Unlabeled Pipes

Aboveground pipes transporting hazardous substances (gases, vapors, liquids, semi-liquids, or plastics) shall be labeled in accordance to 8 CCR §3321, "Identification of Piping."

Employees shall not work on any unlabeled pipes until:

- The contents of the pipe are determined; and
- Appropriate safety precautions have been determined for the work.

### 3.6.4 Labels on Containers Leaving Campus

All off campus shipments of hazardous chemicals must comply with the current U.S. Department of Transportation (DOT) requirements and the Cal Maritime Hazardous Chemicals Use, Storage, Transportation and Disposal policy. Hazardous Materials shipment information can be found on the Safety & Risk Management webpage.

### 3.7 Multi-Employer Workplaces (Informing Contractors and Contract Workers)

Hazard information, which includes access to SDS, must be made available to contractors and contract workers if the work is to be performed in the presence of hazardous chemicals. Contractors and contract workers must also disclose hazard information for hazardous chemicals that are brought into the work area that may affect campus employees.

### 3.8 Emergency Procedures

Employees shall follow emergency procedures covered in their department-specific Emergency Action Plan and Injury and Illness Prevention Program. Emergency response procedures are also covered in the SDSs, labels, and Cal Maritime Emergency Response Guide.

# CAL MARITIME

# **Hazard Communication Safety Program**

### 4.0 Training Requirements

Effective dissemination of safety information lies at the very heart of a successful Injury and Illness Prevention Program. It is essential to provide training for employees concerning general safe work practices as well as specific instruction with respect to hazards unique to each employee's job assignment.

Training content is determined by the Department of Safety and Risk Management, as well as Department Management which is based upon observed hazards, type of equipment, Department need, and work requirements.

- Providing training from within the department as a part of academic programming, or
- Training provided by CSU-System, or
- Training provided by Cal Maritime SRM, or
- A training provider outside the University.

Note: All outside trainer venders are to be reviewed and content approved by SRM. The Department of Safety and Risk Management, in conjunction with various departments have developed training programs designed to meet general safe work practice requirements. These programs are elements of larger programs which service broad campus needs.

Employees expected to utilize chemicals as part of their job duties must be adequately trained prior to using such chemicals.

Employees should be trained in the following areas:

- Be able to recognize hazards associated with different types of chemicals and equipment; and the safety precautions necessary for use.
- The PPE required to be worn during the use of chemicals.
- The proper use of tools and other equipment, be able to recognize defects in tools, which may render them out of service.
- When applicable, provide access to the manufacturer specifications and manual's for specific equipment to be used.
- Department-developed standard operating procedures (SOPs) outlining specific safety precautions for certain tools or activities.
- Signs and symptoms related to the exposures to hazardous chemicals used in the work area;
- Methods that may be used to detect the presence or release of a hazardous chemical.
- This could include industrial hygiene monitoring, the use of continuous monitoring devices, visual appearance, or odors of chemicals;
- Details of manufacturer labels, SDSs and workplace labeling system, and how that information can be used to assure safe handling and storage; and
- Procedure for addressing non-routine tasks involving hazardous chemicals.

#### Frequency

Supervisors and Principal Investigators must provide employees information and training regarding the physical
and health hazards of the chemicals in the work area before assigning employees to work with hazardous
chemicals. Refresher training is required whenever a new chemical hazard is introduced into the workplace or a
new or updated SDS is received.

#### **Non-Routine Tasks**

Employees must be provided training or refresher training prior to engaging in a non- routine task. Employees
must be provided hazard notification and precautionary measures to avoid or minimize the potential for risk of
exposure.



Retraining may be necessary to maintain employee knowledge of working with tools or if a near-miss or injury has occurred.

Training is to be documented and kept in a readily accessible location by the Department designee for access reference as needed by Department Management, Department of Safety & Risk Management, or regulatory agency (e.g. CalOSHA). Submit the completed training roster of attendees to the Department of Safety & Risk Management.

Program Administrators are trained on their roles and responsibilities in the management/maintenance of the requirements and inspections outlined in this program.

Refer to Cal/OSHA Safety & Health Training and Instruction Requirements as outlined in Appendix C of the Injury Illness Prevention Program.

Revision: 002

# CAL MARITIME

### **Hazard Communication Safety Program**

### 5.0 Document Control & Recordkeeping

Essential records, including those legally required for Workers' Compensation, insurance audits and government inspections will be maintained for as long as required. Individual Departments and/or Colleges will also keep records of steps taken to establish and maintain the Injury and Illness Prevention Program.

They must include:

- Records of scheduled and periodic inspections to identify unsafe conditions and work practices. The documentation includes the name of the person(s) conducting the inspection, the unsafe conditions and work practices identified, and the corrective action(s) taken. These records will be maintained for at least three years.
- Documentation of health and safety training for each employee. Specifically, employee name or other identifier, training dates, type(s) of training and the name of the training provider will be included. Records will be retained for at least three years. Standard forms for maintaining this information can be obtained from the Department of Safety and Risk Management.

Each Department is responsible for maintaining their own records of machine safeguarding inspections / surveys. In addition, Departments must maintain training records of personnel who have been trained on this program and/or to specific equipment as may be necessary to demonstrate training compliance to a regulatory agency. Documents such as JSAs, SOPs, operation manuals, signage, etc... may all function to demonstrate record keeping, safe-operation, warning and training activities.

If modifications are made to any machine, keep all documentation (drawings, specs, receipts, etc.) for as long as the equipment is in service or owned by the University.

Retain all training records for ten years after employees have retired or left University employment. For students, retain records for ten years after the student's projected graduation date.

Training records will be kept in each department and copies will be forwarded to the Department of Safety and Risk Management.

Departments must maintain the following records as part of the hand and portable power tool safety program.

- Employee training records
- Specialized SOPs
- Manufacturer specifications/manuals
- Maintenance/service records

Record	Timeframe/Frequency	Location of Record	Retention Period*
HazCom General	Initial, Annual Refresher for	Document on	
	affected employees.	Employee's Safety	3-Years
		Training Checklist	
HazCom Specific	Initial, Annual Refresher for	Document on	
	affected employees.	Employee's Safety	3-Years
		Training Checklist	
HazCom Specific	Post incident and/or process	Document on	
	management change for	Employee's Safety	3-Years
	affected employees.	Training Checklist	

<sup>\*</sup>Refer to the Injury Illness Prevention Program Document Retention Table and/or California State University Systemwide for more information.

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# **Appendix A: Definitions**

### **General Definitions**

Means a person approved or assigned by the employer to perform a specific type of duty or duties or to be at a specific location or locations at the jobsite.  A competent person is a person who is <b>capable</b> of identifying existing and predictable hazards in
A compotent person is a person who is capable of identifying existing and predictable hazards in
A competent person is a person who is <b>capable</b> of identifying existing and predictable hazards in
the surroundings or working conditions that are unsanitary, hazardous, or dangerous to
employees.
The competent person has the <b>authority</b> to impose prompt corrective measures to eliminate
these hazards.
Examples:
Excavation - Inspectors 1541
Fall Protection Plan implementers & supervisors 1671.1
Lift Slab Construction 1522.1
Is a space that (1) is large enough and so configured that an employee can enter bodily, (2) has
limited or restricted means for entry or exit (e.g., tanks, vessels, vaults, shafts, pits), and (3) is not
designed for continuous occupancy.
Is the Cal Maritime employee responsible for the supervision and field management of day-to-day
needs of a construction project. It may be a project superintendent, a craft supervisor, or a lead
person.
For purposes of this section, "Construction work" means work for construction, alteration, and/or
repair, including painting and decorating. Construction: is any combination of engineering,
procurement, erection, installation, assembly, demolition, or fabrication used to create a new
facility, or to alter, add to, rehabilitate, dismantle, or remove an existing facility. It also includes
the alteration and repair (including dredging, excavating, and painting) of buildings, structures, or
other real property, as well as any construction and excavation activities conducted as part of
environmental remediation efforts.
Means an area in which certain work (e.g., overhand bricklaying) may take place without the use
of guardrail systems, personal fall arrest systems, or safety net systems and access to the zone is
controlled
Is any condition or practice that could reasonably be expected to cause death or serious physical
harm (permanent or prolonged impairment of the body or temporary disablement requiring
hospitalization) to employees or the public unless immediate actions are taken.
Is the Cal Maritime employee representative with overall responsibility for a project. This person
ensures subcontractor compliance with subcontract documents, including performance, schedule,
budget, and safety.
Means mandatory
Means recommended
Is a firm that has sole contractual responsibility for execution of the construction work related to
a project, and for compliance with all safety, health, and environmental codes, standards, and
regulations.
A qualified person is a person <b>designated</b> by the employer; and by reason of <b>training</b> ,
experience, or instruction has demonstrated the ability to perform safely all assigned duties; &,
when required is properly licensed in accordance with federal, state, or local laws and
regulations.
Examples:
Mobile Crane & Tower Crane Operators 5006.1(a)
Scaffold Erection & Dismantling Supervisors 1637(k)(1)
Demolition 1736
Personal Fall Arrest System supervisors 1670(b)
- 1 613011011 011 A11 636 3 3 3 (CH1 30 PCI VI3013 10 / O(D)



# **Definitions (cont.) Chemical Definitions-**

Chemical Deliniti	(UII)5-
Article	A manufactured item (1) which is formed to a specific shape or design during manufacture; (2) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (3) which does not release, or otherwise result in exposure to a hazardous substance under normal conditions of use or in a
	reasonably foreseeable emergency resulting from workplace operations.
Classification	To identify the relevant data regarding the hazards of a chemical; review those data to ascertain hazards associated with the chemical; and decide whether the chemical will be classified as hazardous, and the degree of hazard where appropriate, by comparing the data with the criteria for health and physical hazards. Typical classifications might be flammable, corrosive, reactive and toxic.
Hazardous	Any chemical which is classified as a physical hazard or a health hazard, a simple asphyxiant, combustible dust,
chemical	pyrophoric gas, a hazard not otherwise classified, or is included in the <i>Director's List of Hazardous Substance</i> .
Health hazard	A chemical for which there is statistically significant evidence based on at least one study conducted in accordance with the established scientific principles that acute or chronic health effects may occur in exposed employees. Health Hazard Criteria can be found in 29 CFR §1910.1200- Appendix A (8 CCR §5194 Appendix A references this federal regulation). Hazards are listed as "H" codes on GHS- compliant labels and safety data sheets (SDSs).
Immodiate use	The hazardous substance will be under the control of and used only by the person who transfers it from a labeled
Immediate use	container and only within the work shift in which it is transferred.
Label	An appropriate group of written, printed, graphic information elements concerning a hazardous chemical that is affixed to, printed on, or attached to the immediate container of a hazardous chemical, or to the outside packaging.
Near miss	As defined by OSHA, refers to incidents where no property was damaged and no personal injury sustained,
wear miss	but where, given a slight shift in time or position, damage and/or injury easily could have occurred.
Physical hazard	A chemical that is classified as posing one of the following hazardous effects: explosive; flammable (gases, aerosols, liquids, or solids); oxidizer (liquid, solid or gas); self-reactive; pyrophoric (liquid or solid); self-heating; organic peroxide; corrosive to metal; gas under pressure; combustible liquid; water reactive; or in contact with water emits flammable gas. Physical Criteria can be found in 29 CFR§1910.1200 Appendix B (8
	CCR §5194- Appendix B references this federal regulation).
Pictogram	A composition that may include a symbol plus other graphic elements, such as a border, background pattern or color that is intended to convey specific information about the hazards of a chemical.
Precautionary statement	A phrase that describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposure to hazardous chemicals, or improper storage or handling. Statements are listed as "P" codes on GHS-compliant labels and SDSs
Pyrophoric gas	A chemical that will ignite spontaneously in air at a temperature of 130 degrees F (54.4 degrees C) or below.
Safety data sheet (SDS)	Written or printed material concerning a hazardous chemical that is prepared in accordance with 8 CCR §5194(g). (See <i>Appendix B</i> for details).
Signal word	A word used to indicate the relative level of severity of hazard and alert the reader to a potential hazard on the label. The signal words used are "danger" and "warning." "Danger" is used for the more severe hazards, while "warning" is used for the less severe.
Simple	A substance or mixture that displaces oxygen in the ambient atmosphere, and can thus cause oxygen
asphyxiant	deprivation in those individuals who are exposed, leading to unconsciousness and death
· -	Any confidential formula, pattern, process, device, information, or compilation of information which
Trade secret	gives its user an opportunity to obtain a business advantage over competitors who do not know or use it. A trade secret shall not include chemical identify information which is readily discoverable through qualitative analysis
Use	To package, handle, react, or transfer
Workplace label	Non-original manufacturer label"- Label placed on a secondary (workplace) container. When hazardous material is removed/transferred from the original manufacturer labeled container to another container (secondary (workplace) container), the secondary (workplace) container must have a workplace label with the exception of portable containers that will contain chemicals for immediate use.

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Appendix B: Job Hazard Analysis Template- Sample									
SAFETY GUIDELINES									
IMAGE			SCOPE OF	WORK/EQUI	PMENT USE	DE	DEPARTMENT:		
							HAZARD POTE	NTIAL EVA	ALUATION
						□S	truck By		ather Conditions
							truck Against		ardous
							lip/Trip/Fall	Subst	
							aught In/Between		ctrical Hazards
							laterial Handling quipment Operatir		struction
							M-HIRAC 1	2	3 4
			TE	A INUNIC DE	OLUDENAEN		VI-HIKAC I	Z	3 4
^	50 NOT				QUIREMEN			46 6 -	^
	DO NOT						instructed you in	tne safe	
□ IIPP	D Dont			ors/Owner's	zed you to op				
□ IIPP	□ Dept	. Specific					Other:		
			PERSO	NAL PROTE	CIVE EQUI	PIVIENT			
900		Ш///	7.1	Ji.		22	À	( TY ) Y	
				[1]	4	<b>9</b>			
Eye	Foot	Hand	Hearing	Body	Head	Respirato	ry Fall		
Protection	Protection	Protection	Protection	Protection	Protection	Protectio	· ·	Face Shield	
When	When	When	When	When	Where	May be		Face shiel	1
exposed to	working in	hands are	exposed to	exposure	there is a	required		can be use	
eye or face hazards	areas where	exposed to hazards	a time weighted	to: Intense heat,	potential for injury to	removal contamina		over the glasses if	
from flying	there is a	such as	average	hot metals,	the head	ts from th	_	there is a	
particles,	danger of	those from	noise level	other hot	from falling	air does n	0	presence o	
molten	foot injuries	skin	of 85 dBA	liquids	objects	fall belov		a lot of	
metal,	due to	absorption	or higher	Impacts	and/or	permissib		flying	
liquid chemicals,	falling or rolling	of harmful substances;	over an 8 hour work	from materials	when there is a risk of	exposure level.	e 6ft CSO 6ft MSO	debris.	
acids or	objects, or	severe cuts	shift.	that can	impact to	icvei.	When		
caustic	objects	or		cut, burn	head		working in		
liquids,	piercing the	lacerations;		Hazardous			confined		
chemical	sole, or will	severe		chemicals			space		
gases or vapors, or	protect the affected	abrasions;		Or					
potentially	anecteu	punctures; chemical		potentially infectious					
injurious		burns		materials					
light									
radiation									
HAZARDS			Н	AZARD CON	TROLS & PRO	OTECTION	I MEASURES		
IF CON	DITIONS CHAN	IGE: STOP WO	ORK IMMEDIA	TELY-REVIEW	WITH SUPER	VISOR-DO	CUMENT HAZAR	D-REVIEW Y	WITH SRM
Flectronically	Controlled Latest	revision is in the Doc	rument Managemer	nt System A printer	conv is uncontrolle	d and may be a	outdated unless it bears	a red ink "contro	alled cony" stamp
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	SAFE OPERATING PROCEEDURES					
	STEPS/TASKS	HAZARD POTENTIAL	HAZARD CONTROLS & PROTECTION MEASURES			
1	31213/17383	TIAZARD I OTZIVITAL	TIAZARD CONTROLS & TROTECTION WEASONES			
-						
2						
3						
_						
4						
5						
6						
7						
8						
8						
9						
10						
11						
11						
12						
13						
14						
15						
13						
		NOTES				
IF C	ONDITIONS CHANGE: STOP WORK IMN	MEDIATELY-REVIEW WITH SUPERV	ISOR-DOCUMENT HAZARD-REVIEW WITH SRM			
EMI	ERGENCY RESPONSE		EVACAUTION ASSEMBLY POINT			
1	First Aid Kit					
2	AED	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	211			
3	Emergency phone	Campus Police- 707-654-1111 or MEDIATELY REPORT ALL INCIDENTS				
		ISOR AND THE DEPARTMENT OF S				
НОІ	JSEKEEPING & SECURITY		MUST BE PRESENT WHEN SHOP IS OCCUPIED			
	Is the work area/site Clean?		nd that any hazardous materials are properly disposed			
1		of daily				
2	Is the work area/site Secure?	Ensure lights are turned off and	building is locked upon exiting work for the day.			
3						

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### Appendix C: Safety Data Sheets

The Hazard Communication Standard requires manufacturers to provide GHS-compliant SDSs (formerly known as MSDSs) by June 2015. The SDS must be in a uniform 16-section format which includes the sections described below. This information was taken from the OSHA HazCom SDS Quickcard. Detailed information can be found at https://www.osha.gov/Publications/OSHA3636.pdf.

se realist de l'étépair, il l'était de l'éta	
Section 1, Identification:	Section 8, Exposure controls/personal
Includes product identifier; manufacturer or	protection:
distributor name, address, phone number;	Lists OSHA's Permissible Exposure Limits (PELs);
emergency phone number; recommended use;	Threshold Limit Values (TLVs); appropriate
restrictions on use.	engineering controls; personal protective equipment (PPE).
Section 2, Hazard(s) identification:	Section 9, Physical and chemical properties:
Includes all hazards regarding the chemical;	Lists the chemical's characteristics.
required label elements.	Lists the chemical's characteristics.
Section 3, Composition/information on	Section 10, Stability and reactivity:
ingredients:	Lists chemical stability and possibility of
Includes information on chemical ingredients;	hazardous reactions.
trade secret claims.	Tidzar adas reactions.
Section 4, First-aid measures:	Section 11, Toxicological information:
Includes important symptoms/effects, acute,	Includes routes of exposure; related symptoms,
delayed; required treatment.	acute and chronic effects; numerical measures
delayed, required treatment.	of toxicity.
Section 5, Fire-fighting measures:	Section 12, Ecological information*
Lists suitable extinguishing techniques,	Section 13, Disposal considerations*
equipment; chemical hazards from fire.	Section 14, Transport information*
Section 6, Accidental release measures:	Section 15, Regulatory information*
Lists emergency procedures; protective	*Note: Since other Agencies regulate this
equipment; proper methods of containment and	information, OSHA will not be enforcing
cleanup.	Sections 12 through 15.
Section 7, Handling and storage:	Section 16, Other information:
Lists precautions for safe handling and storage,	Includes the date of preparation or last revision.
including incompatibilities.	

#### **Employers must ensure that:**

- SDSs are readily accessible to employees;
- Employees are trained on how to interpret SDSs;
- Document training; and
- Retain records for at least three years



Safety Services SDS search can be found in department binders as well as in the Office of Safety and Risk Management

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# **Appendix D: Pictogram & Labels**

### **GHS- Hazard Pictograms and Related Hazard Classes**

The Hazard Communication Standard requires pictograms on manufacturer labels to alert users of the hazards associated with hazardous chemicals. Pictograms consist of a symbol on a white background with red border and represents a specific hazard. Pictograms are determined by the chemical hazard classification Pictograms can be downloaded directly from <a href="https://www.osha.gov/dsg/hazcom/pictograms/index.html">https://www.osha.gov/dsg/hazcom/pictograms/index.html</a>. OSHA Quick Cards: <a href="https://www.osha.gov/pls/publications/publication.athruz?pType=Types&plD=6">https://www.osha.gov/pls/publications/publication.athruz?pType=Types&plD=6</a>







### Appendix E: Common Labeling Systems: DOT, NFPA, HMIS

There are many labeling systems commonly used to communicate the potential hazards of chemicals. The more commonly used systems are from the U.S. Department of Transportation (DOT), National Fire Protection Association (NFPA) and the Hazardous Materials Identification System (HMIS).

### U.S. Department of Transportation (DOT) system categorizes

hazardous materials into nine classes: Class 1: Explosives

Class 2: Gases

Class 3: Flammable Liquids Class 4:

Flammable Solids

Class 5: Oxidizers, Organic Peroxides Class 6:

Toxic (Poison)

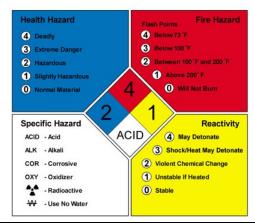
Class 7: Radioactive

Class 8: Corrosive

Class 9: Miscellaneous

See U.S. DOT Chart 14 for details.





The **National Fire Protection Association** (NFPA) system consist of a diamond-shaped label with four sections that are color coded:

Blue: Health Hazard

Red: Fire hazard White: Specific Hazards Yellow: Reactivity

The numbering system ranges from zero (0) to four (4). The larger the number, the greater the hazard. Zero (0) is least hazardous and four (4) is the most hazardous. The NFPA codes describe how a material might behave in a fire situation.

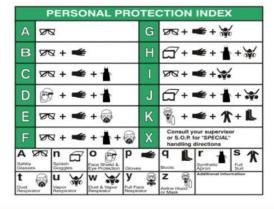
See the NFPA OSHA Quick Card for details.

#### The Hazardous Materials

Identification System (HMIS) uses a similar numbering system as NFPA. The current version of the HMIS manual (HMIS III) updated the formerly yellow coded "Reactivity" section to an orange "Physical Hazard" section to align with OSHA HazCom standard. The white colored "Personal Protection" section uses the HMIS personal protection index to describe the required personal protective equipment.

#### **HMIS Hazardous Materials Identification System**





* CHRONIC HAZARD Chronic (long-term) health effects may result repeated overexposure.				
0=MINIMAL HAZARD	No significant risk to health.			
1=SLIGHT HAZARD	Irritation or minor reversible injury possible.			
2=MODERATE HAZARD	Temporary or minor injury may occur.			
3=SERIOUS HAZARD	Major injury likely unless prompt action is taken and medical treatment is given.			
4=SEVERE HAZARD	Life-threatening, major or permanent damage may result from single or repeated overexposures.			



### **Appendix F: DEPARTMENT POSTING-Sample**

# Department Name SDS Location

#### **Contact for SDS Information**

Cal/OSHA's Hazard Communication Standard requires manufacturers of products containing hazardous chemicals to furnish safety data sheets (SDSs) for their products. The SDS provides information such as toxicity, flammability, and reactivity hazard data; handling and storage guidance; and emergency procedures to follow for spills, exposure, and fighting fires.

Manufacturers' labels must contain *pictograms*, *signal words*, *hazard and precautionary statements*, *product identifier*, *and supplier information*.

Hazardous chemicals are not limited to the laboratory. Materials such as cleaning agents, paints, art materials, photographic chemicals, and automotive supplies may contain hazardous chemicals. Whenever there is doubt about the hazards associated with any material, contact your Supervisor or Safety at 707-654-1076.

Prior to performing a non-routine or unfamiliar operation that may involve hazardous chemicals, contact your Supervisor, Principal Investigator, or Department Safety Coordinator for information and training.



# IN CASE OF EMERGENCY, CALL CAMPUS POLICE x 1111

Note: Dialing 911 directly will not immediately dispatch Cal Maritime Police Department.

Dialing 707-654-1111 will simultaneously dispatch Cal Maritime Police Department as well as other Local Agency Emergency Responders.

For skin or eye contact, immediately flush the affected area with running water for at least 15 minutes. If a substantial portion of the body is involved, use a safety shower. Seek medical attention. If the chemical is toxic, or if its toxic properties are unknown, call Emergency Services.

**For inhalation or ingestion**, follow instructions on the product label or SDS. Seek medical attention or **call Emergency Services**.

For chemical spills, check product label or SDS for instructions. If you suspect the chemical is flammable, extinguish all ignition sources. If instructions are not immediately available, the spill is large, or if chemical has definite or unknown corrosive, explosive, or toxic properties, evacuate and restrict access to the area and call Emergency Services..

Clean up small spills <u>only</u> if you are trained and have access to spill kit supplies.

**NOTICE TO EMPLOYEES**: Under California Code of Regulations, Title 8, section 3204, you have the right to see and copy your medical records and any records your employer maintains of your exposure to hazardous substances or harmful physical agents. In addition, you, your personal physician, or your collective bargaining agent may request information contained in SDSs. No discrimination action (including discharge) may be taken against you if you exercise your legal right.

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# Appendix G: Inspecting of Equipment SAMPLE TAGS & LABELS



EQUIPMENT INSPECTION RECORD						
Location _	ОК	NG	BY			
DAIL	- Oil	110				
REPAIR T	AG. IF DANG	R MUST FIL GEROUS TO TAG AT ONC	OPERATE,			

### **Labels and Color Coding**

SAFETY ASSURED INSPECTION CODING						
MONTH	MONTH TESTED	COLOR OF TAPE(S) TO APPLY TO CORD				
1	January	White				
2	February	White +	Yellow			
3	March	White +	Blue			
4	April	Green				
5	May	Green +	Yellow			
6	June	Green +	Blue			
7	July	Red				
8	August	Red +	Yellow			
9	September	Red +	Blue			
10	October	Orange				
11	November	Orange +	Yellow			
12	December	Orange +	Blue			
Repair/Damaged		Brown				

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# **Appendix H: Lab Safety Assessment Checklist**

# **Environmental Health & Safety Laboratory Safety Assessment**

Evaluator(s) Date

Department Location

Please check Yes, No, Not Applicable for each item.

All No responses require follow-up within 30 days, unless otherwise noted and all Serious Violations require 3 day follow-up.

\*Retain original copy at the Department level. Submit copy to the Department of Safety & Risk Management\*

### **ADMINISTRATIVE/DOCUMENTATION**

#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
1	Appropriate signage posted (Right to Know) at all entrances to lab	CCR Title 24 §5003.5, NFPA704						
2	Building Emergency Evacuation Route posted	CCR Title 19 §3.09,						
3	Lab staff are aware of and have access to campus-wide Chemical Hygiene Plan	CCR Title 8 §5191,						
4	I	CCR Title 8 §5194(e), CCR Title 27§15280,						
5	Emergency contacts posted at entrance to laboratory	CCR Title 8 §3220,						
6	Department Illness and Injury Prevention Plan available and up-to- date.	CCR Title 8 §3203,						
7	Emergency Action Plan available and up-to- date	CCR Title 8 §3220,						
8	Emergency assistance information posted	CCR Title 8 §3400(f)						
9		CSU Policy,						
10	Medical Surveillance Program properly documented	CCR Title 8 §5191(g),						
11	Readily accessible SDS's (hard copy or online)	CCR Title 8 §5194(g),						
12	Annual self-inspection complete	CCR Title 8 §3203						
13	Staff aware of procedure to report exposures or concerns	CCR Title 8 §5191						
14	Staff aware of procedure to report incidents and near misses	CCR Title 8 §5191						
15	Written Standard Operating Procedures available and current	CCR Title 8 §5191,						
16	Appropriate safety information posted on equipment	A&F 09-004 (IIPP)						
17		A&F 09-004 (IIPP)						
18	Moving parts of equipment properly guarded (opening < 1/2")	CCR Title 8 §4184,						
19		A&F 09-004 (IIPP)						

NOTES:

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GEI	NERAL SAFETY							
#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
20	Ceiling tiles in place and in good repair	NFPA						
21	Ergonomic evaluations done for computer work in excess of 4 hours	CCR Title 8 §5110						
22	Food and drink stored away from haz mat; consumed outside of lab	CCR Title 8 §5191 A,						
23	Mechanical devices used for pipetting	CCR Title 8 §5191 A,						
24	Spills promptly cleaned by individuals trained to respond to spill	CCR Title 8 §5191A,						
25	Floor is in good repair to prevent slips, trips and falls	CCR Title 8 §5191A						
26	Furnishings in lab easily decontaminated	CCR Title 8 §5191A						
27	Lab surfaces clean, organized, free of chemical contamination	CCR Title 8 §3362, §5191A						
28	Sink available near exit for hand washing (soap and paper towels)	CCR Title 8 §3366						
29	Sinks labeled "Industrial Water – Do Not Drink"	CCR Title 8 §1524						
30	Lab air negative to hallway	CCR Title 8 §5191 A						
31	Refrigerators/freezers appropriately labeled according to use	CCR Title 8 §5191 A,						
32	Ergonomic evaluations completed for repetitive motion activities	CCR Title 8 §5110						
33	Vacuum systems fitted with traps or protective filter	A&F 09-004 (IIPP)						
NOT	ES:		,	•	,			



GEI	NERAL ELECTRICAL							
#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
34	3-prong plugs in 3-prong outlets	A&F 09-004 (IIPP)						
35	Appropriate clearance in front of electrical panels (36")	NFPA 70-110.26/408.4,						
36	Electrical cords not a trip hazard	NFPA 70						
37	Plugs, cords and receptacles in good condition	A&F 09-004 (IIPP)						
38	Extension cords used only temporarily	CCR Title 8§2500.8,						
39	No overloaded outlets, no daisy- chained extension cords or strips	NFPA 70-400.7B,						
40	GFCI devices used within 6' of water source (post 2010)	NFPA 70-210.8(B)(5),						
41	High voltage equipment clearly labeled	CCR Title 8 §2932						
42	High voltage equipment properly guarded	CCR Title 8 §2932						
43	Major equipment plugged directly into outlet	A&F 09-004 (IIPP)						
44	Appropriate personnel trained in Lock Out/Tag Out program	CCR Title 8 §3314						
45	Power strips near liquids have GFCI protection	A&F 09-004 (IIPP)						
NOT	EC.							

FIR	E							
#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
46	Aisles, exits, adjoining hallways free of obstruction	CCR Title 8 §3272,						
47	Fire alarms, bells, horns and/or strobes free of obstruction	CCR Title 24 §901.8						
48	Fire extinguisher properly mounted	CCR Title 8 §6151						
49	Fire extinguisher maintenance tag current	CCR Title 8 §6151						
50	Fire extinguisher available as required	CCR Title 8 §6151						
51	Fire extinguisher fully charged; pin and/or security seal intact	CCR Title 8 §6151						
52	Fire doors unobstructed and easily closed	CCR Title 8 §3225,						
53	18" of clearance between stored items and fire sprinklers, 24" w/o sprinklers	CCR Title 8 §6170(c)10						
NOT	NOTES:							

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FUI	FUMES									
#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE		
54	Audible/visual alarm and/or visual airflow monitor functional	CCR Title 8 §5154.1(e),								
55	Chemical work done more than 6" from front of hood	CCR Title 8 §5191A,								
56	Certified within one year	CCR Title 8 §5154.1(e),								
57	Fume hood illumination is working									
58	Functional fume hood not used for storage, cluttered	CCR Title 8 §5191A,								
59	Users understand how to check for airflow and annual certification sticker	CCR Title 8 §5154.1								
60	Fume hood users have completed specific fume hood training	CCR Title 8 §5154.1								
61	Proper sash height indicated and adhered to	CCR Title 8 §5154.1								

NOTES:

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#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
62	Compressed gas cylinders stored upright and adequately secured	CCR Title 8 §4650,						
63	Compressed gas cylinders labeled with contents and hazards	CCR Title 8 §4650						
64	Compressed gas cylinders have full/empty tags attached	CCR Title 8 §4649,						
65	Compressed gas cylinders properly segregated if stored	CCR Title 8 §4650,						
66	Toxic gases properly stored in ventilated cabinet/fume hood	CCR Title 8 §4650						
67	Compressed gas cylinders capped when not in use	CCR Title 8 §4650,						



PEF	SONAL PROTECTION EQUIPME	NT						
#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
68	Eye protection available and used as required by Cal Maritime PPE policy	CCR Title 8 §3382,						
69	Equipment or process sound levels that may exceed 85 dBA	CCR Title 8 §5096,						
70	Face shield available if required	CCR Title 8 §3382,						
71	Gloves worn when skin contact with hazards may occur	CCR Title 8 §3384,						
72	Glove(s) removed prior to exiting lab, handling telephone, etc.	CCR Title 8§5193(4)(F),						
73	Appropriate gloves available for use with hazardous activities	CCR Title 8 §3384,						
74	Lab coats, appropriate to activity are worn	CCR Title 8 §3383,						
75	Long pants worn as required by Cal Maritime PPE policy	EO 1039, AF 09-004						
76	PPE properly cleaned and disinfected or properly disposed of	CCR Title 8 §3387, §3383,						
77	Respirator users have been evaluated by EH&S and included in campus respiratory protection program	CCR Title 8 §5144,						
78	Adequate supply of specialty PPE available	CCR Title 8 §3380(f),						
NOT								

**NOTES:** 

### **EMERGENCY ACTION PLAN**

#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
79	Emergency eyewash/showers accessible within 10 sec	CCR Title 8 §5162(c),						
80	Emergency eyewash and shower stations free of obstruction	CCR Title 8 §5162(c),						
81	Tests for eyewash and shower current and documented	CCR Title 8 §5162(e),						
82	Appropriate chemical spill kits available	CCR Title 8 §5191A,						
83	First Aid Kit available, stocked with unexpired products	CCR Title 8 §3400(c)						

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WA	STE MANAGEMENT							
#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
84	Biomedical waste (red bag) properly disposed of	HSC §117600-118360						
85	Secondary containment used for biomedical waste	CCR Title 8 §5193						
86	Chemical waste containers compatible with contents; good condition	CCR Title 22 §66265.171,						
87	Chemical waste containers closed except when in use	CCR Title 22§66265.173,						
88	Hazardous waste in secondary containment	CCR Title 24§5005,						
89	Chemical waste containers properly tagged/dated/labeled for disposal	CCR Title 22§66262.34,						
90	All wastes within regulatory time limits	CCR Title 22§66262.34,						
91	Tight fitting lid in place on biomedical waste	HSC§ 118280						
92	Universal waste properly labeled/discarded/contained; < 1 year	CCR Title 22§66273.35,						

NOTES:

**EARTHQUAKE PREPAREDNESS/ SEISMIC** 

#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
93	Heavy items are stored on lower shelves	CCR Title 8 §5191 A,						
94	Shelving, file cabinets 5' or over and other tippable items anchored	CCR Title 8 §5191 A,						
95	Overhead storage is secured	CCR Title 8 §5191 A,						
96	Hazardous material storage shelves have lip or guard	CCR Title 24 §5003.9.9,						



MA	CHINE GUARDING							
#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
97	Machines as specifically having a grinding, shearing, punching, pressing, squeezing, drawing, cutting, rolling, mixing or similar action, in which an employee comes within the danger zone shall be guarded at the point of operation.	CCR Title 8 ,§4184						
98	All saws, cutting tools, heads, shears, and knives that are part of any machine shall be kept sharp, properly set up, adjusted and firmly secured.	CCR Title 8 ,§4186						
99	All point of operation guards shall be properly set up, adjusted and maintained in safe and efficient working condition in conformance with Figure G-8 and Table G-3 or other guard configurations which will prevent the operator's hand from entering the point of operation	CCR Title 8 ,§4186						
100	All repair work performed on metal forming and/or cutting machines, such as punch presses, press brakes, forming rolls, shears, power presses, forging presses and hammers, shall be made: In accordance with the recommendation of the manufacturer(s) or in with good engineering practices	A&F 09-004 (IIPP)						
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TRA	INING							
#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
101	All personnel completed Fundamentals of Lab Safety	EO/Cal Maritime Policy						
102	Specialized training for lab specific hazards documented	CCR Title 8 §3203, §5191, §5194						
103	Spill training documented	CCR Title 8 §5191						
104	Training on lab specific SOPs documented	CCR Title 8 §5191						
105	Training on Chemical Hygiene Plan documented	CCR Title 8 §5191						
106	Training on IIPP documented	CCR Title 8 §3203						
107	Training to manage or handle hazardous waste documented							
108	Training on Campus Emergency Response							

**NOTES:** 

#	ITEM	REGULATORY REFERENCE	YES	NO	NA	ACTION NEEDED	OWNER	COMPLETED DATE
109								
110								
111								
112								
113								
114								
115								



# **Appendix I: Custodial Storage Area Checklist**

			CUSTODIAL ST	OR	<b>G</b> I	EΑ	REA CHECKL	IST	
		Evaluator(s):			Loca	tion		Date:	
		Please check Yes,	No, Not Applicable for each item. All N	o res	ponse	es req	 uire follow-up within 30 day:	s, unless other	wise noted and
				latio	ns req	uire 3	day follow-up.		
			ION ITEMS	Y	N N	NA	CORRECTIVE ACTION NEEDED	OWNER	DATE COMPLETE
۸۵	ministra						NEEDED		COMM ELTE
			location known and accessible to						
1	all employ	/ees?							
2	Have emp	loyees received	required IIPP trainings?						
3		-	pard displaying Emergency phone es safety meeting information?						
Λ	Are Mater to employ		heets (MSDSs) on file and available						
_	floor plan,	•	nergency Operations Plan include a artment, including emergency edures?						
6	Is there a	first aid kit availa	able						
7	Is there ar	n eyewash statio	n flushed and inspected monthly						
Pe	rsonal Pr	rotective Equi	pment (PPE)						
8	Is General	PPE available ar	nd in good working order						
9	ls eye pro	tection available	and in good working order						
10			good working order						
	ical Produ				_				T
11	Are all cor	ntainers properly	labeled?						
	-	icts in their prop	er containers	] [					
	· ·	icts organized							
		•	moved or replaced						
15			iliar and do not belong						
	available?		nicals in the work area readily						
	rotection								_
		•	clear of obstruction?						
18	Are fire do	oors closed secur	rely at all times?						
19	Are stairw	ells clear?							
20	Are prope	r fire extinguishe	ers available & inspected?						
-) 1	-	al procedures in p m to exits?	place for workers with disabilities to						

Cal Maritime
Department of Safety & Risk Management
Depar



22	Are combustible materials stored in assigned storage cabinets or designated areas?				
23	Are materials stored at least 18 inches away from sprinkler heads or 24 inches from ceiling where no sprinkler system				
24	Are fire drills held on a regular basis?				
25	Are electric space heaters plugged directly into walls, have				
26	Are lamps well clear of drapes, papers and other combustible				
Elect	rical Safety	<u> </u>			
27	Are all plugs, cords, electrical panels, and receptacles in good				
28	Are extension cords being used correctly? (They must not be				
29	Is clear access (36" clearance) provided to electrical panels?				
30	Are cord or cable systems used to manage all cords or cables?				
31	Are extension cords at minimum 14 gauge (heavy-duty), 6' or less, and servicing only one appliance or fixture?				
32	Is faulty or broken equipment removed from service?				
Custo	odial Operations	<u> </u>			
33	Are the lights working and guarded				
34	Is the floor clear of obstacles				
35	Are Wet Floor signs available				
36	Are rags, towels, etc., available				
37	Are the supply shelves earthquake secured				
38	Is the sink clean				
39	Is the hose present and working properly				
40	Are all faucets and hoses in the off position when not in use				
41	Does the sink drain properly				
42	Do you smell any strong orders				
43	Is the vacuum cleaner safe and in good working condition				
44	ls the vacuum cleaner cord in good condition; without cord stress or prong damage				
45	Are all waste materials placed in the proper waste containers and emptied regularly?				
46	Is flooring in good condition with loose rugs and mats secured?				
47	Have missing or loose ceiling tiles been repaired?			 	
ОТНІ	ER NOTES:				



**Appendix J: Correction Action Summary** 

	<b>TIMELINES</b>	WORK ORDER	Same Day	24- hours	15-days	30-days	PROJECT	30- days	90- days		6- month	1 1	-year	Other
					ACTION	NEEDED	W	ORK OR	RDER/ PRO					
#	CATEGORY		ITEM		Remove/Rep Replace	pair/	#	#		P2	Р3	P4	4 COMPLET	
1														



# **Appendix K: Chemical Inventory**

#### **Equipment Inventory**

**Department Instructions:** An initial inventory of Equipment owned/operated by each department must be conducted to identify all equipment impacted by this program. This must be done by physical inspection. At Cal Maritime this survey may be conducted by a responsible person in a department, the department's Designated Safety Coordinator (DSC) or their designee and documented on this form. Update this inventory list as equipment is purchased or retired from service, and at least annually

	form. Update this inventory list as equipment is purchased or retired from service, and at least annually											
#	Туре	Location	JHA Doc#	Required/Recommended Training	PPE							
EX.	6-inch Joiner	Carpentry Shop	09-03000	Operation of joiner, including use of push bar	Safety glasses Face shield							
1												
2												
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20												

Retain Original at Department Level & Submit Copy to Risk Management



# **Appendix L: Equipment Inventory**

#### **Equipment Inventory**

**Department Instructions:** An initial inventory of Equipment owned/operated by each department must be conducted to identify all equipment impacted by this program. This must be done by physical inspection. At Cal Maritime this survey may be conducted by a responsible person in a department, the department's Designated Safety Coordinator (DSC) or their designee and documented on this form. Update this inventory list as equipment is purchased or retired from service, and at least annually

#	Туре	Location	JHA Doc#	Required/Recommended Training	PPE
EX.	6-inch Joiner	Carpentry Shop	09-03000	Operation of joiner, including use of push bar	Safety glasses Face shield
1					
2					
3					
4					
5					
6					
7					
8					
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17					
18					
19					
20					

Retain Original at Department Level & Submit Copy to Risk Management





# Appendix M: Job Hazard Analysis Library

Document #	Document Title	Date	Comments
09-03001-001	Job Hazard Analysis Manual- Hand & Power Tools	TBD	New Document
09-03001-002	300 Hazara / Harrysis Warraur Harra & Fower 10015	100	New Bocument
09-03001-003			
09-03001-004			
09-03001-005			
09-03001-006			
09-03001-007			
09-03001-008			
09-03001-009			
09-03001-009			
09-03001-011			
09-03001-011			
09-03001-012			
09-03001-013			
09-03001-014			
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09-03001-016			
09-03001-017			
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09-03001-019			
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09-03001-040			
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09-03001-042			
09-03001-043			
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09-03001-050			
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### **Appendix N: Emergency Response**

To download and/or print this poster refer to SRM website: Campus Emergency Poster, Campus Emergency Response Guide



# EMERGENCY PROCEDURES

# Evacuation

- Do not use elevators, use nearest stairs and exit.
- Follow directions given by the building monitors or Campus Officials
- Go to designated evacuation point and do not return to building until instructed to do so.
- Assist persons with mobility needs.

#### Fire



- Evacuate the building and notify occupants as you leave.
- Do not return until authorized by emergency personnel
- Do not use elevators
- Fire Extinguisher Instructions if trained:
- P- Pull pin
- A- Aim at the base of fire
- S-Squeeze handle
- S-Sweep from side to side

#### **Hazardous Spill**



- For spills not involving immediate danger, that are confined; contain and notify the Department of Safety & Risk Management (SRM) at 707-654-1076.
- For uncontained spill, contact Cal Maritime Police Department & SRM
- If immediate hazard or emergency exists, dial 911.
- Move away or evacuate the area.

#### Medical



- For all medical emergencies dial 911
- Be ready to describe natures and severity of the medical emergency.
- Provide the Campus location.
- Keep the victim calm and comfortable.
- Provide basic first aid/CPR/AED if trained.
- Report all work related injuries immediately to: Department of Safety & Risk Management and to Human Resources

### **Earthquake**



- Drop, Cover, Hold under a table or desk or against an interior wall until the shaking has stopped.
- After shaking has stopped check yourself and others for injuries.
- Evacuate the building.
- Move towards the safest location away from building, tree's, power lines.
- Follow the instruction of the building monitors or Campus officials and be prepared for aftershocks

#### **Bomb Threat**



- Report all threatening calls to Cal Maritime Police Department
- Ask Caller: When the bomb is going to explode.
- Where the bomb is located?
- What does the bomb look like?
- Why did you place the bomb?
- If suspicious object is found: Do not handle and dial 911 immediately

#### **Shelter in Place**



- Stay in building; close and lock doors and windows.
- Move away from windows
- Do not use elevators
- Remain in shelter area until emergency personnel announce that it is safe

#### **Active Shooter**



- RUN: leave your belongings behind. If there is an escape path attempt to evacuate. Help others if possible
- <u>HIDE</u>: If you cannot get out safely. Hide. Lock or barricade doors. Silence your cell phone and stay quiet.
- FIGHT: as a last resort, and if you life is in danger, you may attempt to incapacitate the shooter.
   Work in unison with others.

Non-Emergency M-F Business Hours Campus Police Department 707-654-1176

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Safety & Risk Management 707-654-1076

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Facilities & Maintenance 707-654-1120 Human Resources 707-654-1139

For more information and training, contact the Cal Maritime Police Department or the Department of Safety & Risk Management

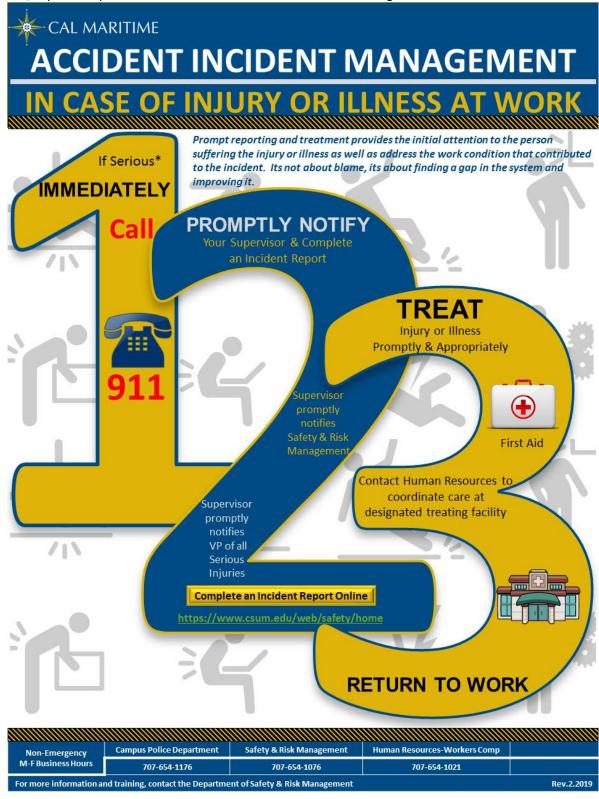
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# **Appendix 0: Accident Incident Management**

To download and/or print this poster refer to SRM website: Accident Incident Management Poster





Appendix P: Training Log

	PTP'	TR	AINII	NG SIGI	N IN S	HEET	
Subject					Date		
Instructor Name		r Name					
Department		ent					
Course Level		/el	☐ Awareness	☐ Competent Person	☐ Certified Person	☐ Other	
Frequency			☐ Initial	Annual-Refresher	☐ Process Change	☐ Post Incident	
The attendees listed have satisfactorily participated and been tested per Regulation/University training requirements.  STATUS							
	PRINT		NAME	( Staff, Faculty, Student)	SIGNATURE		
1							
2							
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4							
5							
6							
7							
8							
9							
10							
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13							
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19							
20		Re	etain Original at De	 partment Level & Submit (	 Copy to Risk Managem	nent	

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