

JOB HAZARD ANALYSIS

GROUNDSKEEPER		SAFE OPERATING GUIDELINES										2017				
	HAZARD POTENTIAL EVALUATION					ERGONOMICS ASSESSMENT										
	<input checked="" type="checkbox"/> Struck By	<input checked="" type="checkbox"/> Weather Conditions	<input checked="" type="checkbox"/> Lifting	L	M	F	<input checked="" type="checkbox"/> Walking	L	M	F	<input checked="" type="checkbox"/> Kneeling	L	M	F		
	<input checked="" type="checkbox"/> Struck Against	<input checked="" type="checkbox"/> Hazardous Substance	<input checked="" type="checkbox"/> Carrying	L	M	F	<input checked="" type="checkbox"/> Standing	L	M	F	<input type="checkbox"/> Hearing/Noise	L	M	F		
	<input checked="" type="checkbox"/> Slip/Trip/Fall	<input checked="" type="checkbox"/> Electrical Hazards	<input checked="" type="checkbox"/> Reaching Above Shoulder	L	M	F	<input checked="" type="checkbox"/> Sitting	L	M	F	<input checked="" type="checkbox"/> Climbing Stairs	L	M	F		
	<input checked="" type="checkbox"/> Caught In/Between	<input checked="" type="checkbox"/> Obstruction/Confined	<input checked="" type="checkbox"/> Straight Pulling	L	M	F	<input checked="" type="checkbox"/> Crawling	L	M	F	<input checked="" type="checkbox"/> Climbing Ladders	L	M	F		
	<input checked="" type="checkbox"/> Material Handling	<input checked="" type="checkbox"/> Equipment Operating	<input checked="" type="checkbox"/> Pulling hand over hand	L	M	F	<input checked="" type="checkbox"/> Twisting	L	M	F	<input checked="" type="checkbox"/> Simple Grasp	L	M	F		
HIRAC	1	2	3	4	<input checked="" type="checkbox"/> Dual Grasp	L	M	F	<input checked="" type="checkbox"/> Pushing	L	M	F	<input checked="" type="checkbox"/> Repeated Motion	L	M	F

TRAINING REQUIREMENTS																															
GENERAL CAMPUS			DEPARTMENT SPECIFIC			SPECIALTY																									
Cal Maritime	EHS Pocket Guide	Emergency Response Guide	Department	Authorized Driver	Ergonomics RMI Prevention	Basic First Aid/CPR/AED	Marine Programs	T.S. Golden Bear	As Identified/Determined																						
I	A	O	H	I	A	O	H	I	A	O	H	I	A	O	H	I	A	O	H	I	A	O	H	I	A	O	H	I	A	O	H











DO NOT USE ANY EQUIPMENT OR MACHINE UNLESS YOU HAVE RECEIVED INSTRUCTION IN THE SAFE USE AND OPERATION AND HAVE AUTHORIZATION TO USE.

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

































IF CONDITIONS CHANGE: STOP WORK IMMEDIATELY-REVIEW WITH SUPERVISOR-DOCUMENT HAZARD-REVIEW WITH SRM

Ergonomic (L) Low <2hrs (M) Moderate 2-5hrs (F) Frequent >5hrs per 8-hours Training (I) Initial (A) Annual Refresher (O) Occasion/Post Incident (H) Hazard



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GENERAL CAMPUS SAFE OPERATING PROCEDURES			
WORK DUTIES		HAZARD POTENTIAL	HAZARD CONTROLS & PROTECTION MEASURES
1	Use of office equipment 	Electrocution, electrical shock, bruising and miscellaneous injuries	<ul style="list-style-type: none"> ⚓ Ensure all electrical equipment is properly grounded. (i.e. three prong electrical plugs) and in proper working order before using. Strictly follow all manufactures precautions and recommendations. ⚓ DO NOT overload circuits by stringing multiple power strips (also known as daisy chaining)
2	Using ladders or step-ladders 	Ladder collapsing; Slipping and falling from ladder	<ul style="list-style-type: none"> ⚓ Inspect ladder before use. Use ladder at proper height. ⚓ Make sure the ladder is assembled, locked and on level ground. ⚓ DO NOT exceed weight limit for ladder. ⚓ DO NOT stand on the top or top rung of ladder and make sure a co-worker is holding ladder if any higher than a step-ladder.
3	Work Station 	Muscle-skeletal disorders, eye/body strain and fatigue	<ul style="list-style-type: none"> ⚓ Ensure workstation is ergonomically correct for the person using the workstation. ⚓ Ensure proper lighting so that there isn't a glare in order to prevent eye strain. ⚓ Review phone placement and accessories so that operator is sitting square and limiting excessive head/neck tilt in order to prevent neck strain
4	Office Furniture 	Falling objects	<ul style="list-style-type: none"> ⚓ Ensure all doors and drawers are fully secured. Do not overload shelves. ⚓ Ensure bookcases are seismically strapped/secure to wall to prevent tipping over.
5	Walking in offices, buildings hallways and stairs 	Slips, trips and falls	<ul style="list-style-type: none"> ⚓ Ensure all walking and working surfaces have been properly maintained, properly lit, are free of debris and remove potential tripping hazards. ⚓ Use handrails when using stairs. ⚠ Note: No opened toed footwear is allowed in food operations ⚠ Note: No opened toed footwear is allowed on T.S. Golden Bear
6	Campus Construction Activities 	Pedestrians knocking over ladders or lights or bumping into worker; pedestrians getting hit with equipment or falling tools, etc.	<ul style="list-style-type: none"> ⚓ Always be aware of surroundings. ⚓ Stay away from construction zones.
7	Working outside in Weather 	Heat stroke, heat exhaustion, frostbite	<ul style="list-style-type: none"> ⚓ Dress appropriately for the weather, keep hydrated, and take necessary breaks when needed
8	Heaving lifting and reaching 	Overexertion, strains and sprains	<ul style="list-style-type: none"> ⚓ Use proper lifting techniques, limit duration of repetitive motion. ⚓ Always know your weight limit, lift with your legs, get help if needed. ⚓ Use step ladders when lifting objects above shoulder height.
9	Campus 	Personal safety and security	<ul style="list-style-type: none"> ⚓ Always be aware of your surroundings. ⚓ Changing weather conditions can increase slip hazards throughout the campus
10	Operating university vehicles 	Motor vehicle accident, striking a pedestrian or bicyclist	<ul style="list-style-type: none"> ⚓ Inspect vehicles before use. ⚓ Use seat belts. Travel at safe speed for conditions. ⚓ Stay alert for pedestrians, other vehicles, and objects in travel path.


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POSITION SPECIFIC SAFE OPERATING PROCEDURES				
WORK DUTIES			HAZARD POTENTIAL	HAZARD CONTROLS & PROTECTION MEASURES
1	Working in offices, buildings or storage containers		Slips, Trips and Falls	<ul style="list-style-type: none">  Ensure all walking and working surfaces have been properly maintained, properly lit and free of debris and remove potential tripping hazards.  Use handrails when using stairs.
2	Using motorized electrical tools & equipment		Electric shock, getting caught in equipment, cuts from sharp edges, Burns, electrocution, , dismemberment, broken bones, hearing loss, blisters and struck by foreign objects	<ul style="list-style-type: none">  Ensure tool/equipment is in proper working order prior to being used.  Ensure tool/equipment is tuned off when performing maintenance and attaching or detaching equipment.  Strictly follow manufactures recommendations and precautions. Perform pre use safety check on equipment.  Always wear appropriate PPE as determined by manufactures operating manual and the given work conditions.
3	Working with Power Tools		Cuts, abrasive, electric shock, injury form flying debris, tripping over power cords, electrocution	<ul style="list-style-type: none">  Wear goggles and dust mask if applicable. Keep cords away from work area.  Keep tools in good condition.  Inspect tools before use. Verify that guards are working properly.  DO NOT put hand near blades.  Make sure you have a good center of gravity and maintain control at all times
4	Using hand tools		Cuts, pinches, smashes, punctures, severing of fingers.	<ul style="list-style-type: none">  Keep tools in good condition. Inspect tools before use.  Wear safety glasses. Work away from yourself.  Use normal caution required for all hand tools.
5	Using ladders or step-ladders		Ladder collapsing; Slipping and falling from ladder	<ul style="list-style-type: none">  Inspect ladder before use. Use ladder at proper height. Make sure the ladder is assembled, locked and on level ground.  DO NOT exceed weight limit for ladder.  DO NOT stand on the top or top rung of ladder and make sure a co-worker is holding ladder if any higher than a step-ladder.
6	Using mowers, tractors and associated equipment		Struck by/caught between injuries to self, co-workers and pedestrians. Burns, dismemberment and broken bones	<ul style="list-style-type: none">  Be aware of surroundings, co-workers and pedestrians.  Ensure tractor is turned off when performing maintenance or attaching or detaching equipment.  Strictly follow manufactures recommendations and precautions.  Perform pre use safety check on equipment.
7	Mixing and applying pesticides, herbicides, fungicides, fertilizers and		Skin and eye irritation, chemical burns and chemical inhalation Chemical spill	<ul style="list-style-type: none">  Be aware of surroundings, co-workers and pedestrians.  Always wear appropriate PPE as determined by manufactures operating manual and the given work conditions.  Strictly follow manufactures recommendations and precautions  Read SDS prior to mixing or applying.

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	cleaning chemicals			
8	Operating University Vehicles		Motor vehicle accident, striking pedestrian or bicyclists	☛ Inspect vehicle before use. Use seat belts. Stay alert for pedestrians, other vehicles and objects in path. Ensure cargo is secured. Ensure vehicle cab is clean free from material or debris that can shift during operation and impact the driver or passenger.
9	Working in area of pedestrian traffic.		Pedestrians knocking over ladders or lights or bumping into worker; pedestrians getting hit with equipment or falling tools, etc.	☛ Always be aware of surroundings
10				☛
11				☛
12				☛

CORE EHS TRAINING REQUIREMENTS	ADDITIONAL NOTES
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	Fall Protection Training	I	A	O	H	
	Elevated Work	I	A	O	H	
	Personal Protection Equipment	I	A	O	H	
	Hand & Power Tool	I	A	O	H	
	Lockout/Tagout (LOTO)	I	A	O	H	
	Hazard Communication	I	A	O	H	
	Fire Extinguisher	I	A	O	H	
	Basic First Aid /CPR/AED	Recommended				

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EMERGENCY RESPONSE	HOUSEKEEPING & SECURITY
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1	First Aid Kit	Located in buildings	1	Is the work area/site Clean?	Ensure work area is clean daily and that any hazardous materials are properly disposed of daily
2	AED	Located in all main buildings	2	Is the work area/site Secure?	Ensure lights are turned off and building is locked upon exiting work for the day.
3	Emergency phone	Campus Police- 707-654-1111 or 911	3		
4	Evacuation	TBD based on Facility & Emergency			

REMINDER: IMMEDIATELY REPORT ALL INCIDENTS, REGARDLESS OF SEVERITY, TO YOUR SUPERVISOR AND THE DEPARTMENT OF SAFETY & RISK MANAGEMENT.