Job Safety Analysis (JSA) Form

Safety Information for Kaimana Enterprises

Tasks	Potential Hazards	Controls
1. Pre-work inspection	1.a. Cuts from materials broken during transportation (plastic, glass, etc.)	1.a.i. Pack securely
		1.a.ii. Be aware of actions (do not work when tired)
		1.a.iii. Use proper PPE
2.Using hand tools such as files, screwdrivers, hammers, saws, wire cutter/stripper, etc.	2.a. Puncturing skin and other physical Injuries from sharp edges/heavy objects	2.a.i. Make sure the right tool is being used for the task
	2.b. Flying pieces of material (wire, metal, wood, etc.)	2.a/b.ii. Proper training was received before using tool
		2.a/b.iii. Be aware of actions (do not work when tired)
		2.a/b.iv. Users are wearing required PPE
3.Using power tools such as drills, soldering irons, etc.	3.a. Puncturing skin and other physical Injuries from sharp edges/heavy objects	3.a.i. Make sure the right tool is being used for the task

	3.b. Injury from harmful fumes (when soldering)	3.a.ii. Proper training was received before using tool
	3.c. Burning skin	3.a.iii. Be aware of actions (do not work when tired)
	3.d. Absorption of harmful chemicals (solder)	3.a.iv. Users wear required PPE
		3.b.i. Make sure there is proper ventilation (do not work in enclosed space)
		3.b/c/d.ii. Users wear required PPE
		3.c/d.ii. Be aware of actions (do not work when tired)
		3.d.iii. Wash skin after soldering and avoid any contact with solder
4. Transportation of ROV	4.a. Puncturing skin and other physical Injuries from sharp objects	4.a.i. Be aware of actions (do not work when tired)
	4.b. Back injury from carrying heavy objects, dropping ROV on feet	4.a.ii. Mark sharp edges with red tape
	4.c. Vehicle damage	4.a.iii. Mark moving objects with yellow tape

		4.b.i. Carry ROV with two hands safely
		4.c.i. Be aware of actions (do not work when tired)
5. Charging Battery	5.a. Charging makes hydrogen (flammable)	5.a.i. Proper ventilation in work place
		5.a.ii. Keep away from flames (any heat)
6. Charging Battery	6.a. Charging makes hydrogen (flammable)	6.a.i. Proper ventilation in work place
		6.a.ii. Keep away from flames (any heat)
7. Testing ROV (in water)	7.a. Shorts from not completely sealed connections	7.a.i. Check connections before placing in water
	7.b. Tripping on tether or ROV	7.a.ii. Sealing with heat shrink and epoxy
		7.b.i. Be aware of actions (do not work when tired)
		7.b.ii. Clean and organize working area
		7.b.iii. Bright yellow rope attached to tether
Required Training: Practice in operating tools, testing ROV, lifting heavy objects, inspecting ROV, charging other objects	Required Personal Protective Equipment (PPE): Safety goggles, long pants, covered shoes, rubber band to tie up long hair, safety gloves	
Contributors:	Department: Safety Officer, Jacquelyn Reilly; Engineer, Janelle Liang	
Completed:	May 25, 2017	