Job safety analysis

Team: Electro-gills

General:

Step 1 Tasks	Step 2 Hazards	Step3 Controls
Workshop	–Soldering - Scissors – cuts - Wire cutters - cuts	-Keep tools organized and area swept at appropriate intervals. -Prevents stepping on sharp items and tools, Putting all items back where they belong. -Stay alert of your surroundings. -Remove all flammable objects from the area.
Hand safety	Welding: The use and contact of hot objects, keep clear of hot surfaces, notify others of hot surfaces.	-Proper Safety gloves
Mechanical safety	-Welding: Flammable material Electric Cable	- Clean tools and maintain a safe workspace. - Wear protective gear, including goggles, gloves, closed- toe shoes. -Make sure no tools are still out and that they are placed in proper location.
Electrical safety	-Cuts - Electrocution	-Proper tools - wire cutters -Proper glasses
Tool safety	-Welding Iron; Serious burning of skin or eye injury	- Safety Glasses and gloves.

Task site:

Step 1 Tasks	Step 2 Hazards	Step3 Controls
Connect all poolside electrical connections from laptop to surface enclosure	- Potential injury to poolside crew members via electrical discharge.	- Ensure all cables are properly secured to pool deck, and do not pose a risk to the team members.
Connecting tether to ROV and laptop	-Arms or legs could get caught in tether.	- Ensure all connections are secure, cables are tied off to their anchor point, and there are no loops in tether large enough to catch limbs.
Connect tether to power supply	- Electrocution	- Ensure the power supply is off when tether is being connected, all hands off vehicle during initial power on.
Check deployment area	-Unsecured equipment	-Move and store any loose cables or hoses
Move ROV onto launch platform	-Slipping or falling into water of on the ground.	- Hand feed tether into water -Keep all tether slack neatly coiled
Launching ROV	-Wet surface slip hazard -Trip hazards: tether or other equipment -Accidental damage to ROV	-Have two people launch ROV −Keep tether neatly coiled
ROV Operation in Pool	- Electrical hazards - Drowning -Cuts from ROV	- On duty lifeguards -Proper lifeguard equipment
Lifting the ROV	- Trip hazards: tether or other equipment	- Have two people retrieve ROV. − Keep tether neatly coiled . -Feed the tether into water by hand.

Tasks	Consequences	Risks		
		Freq	Cons	RPN
Workshop	Body damage	2	3	5
Hand safety	Hand damage	2	3	5
Mechanical safety	Eye/hand/body damage	2	3	5
Electrical safety	Electrocution	1	5	6
Tool safety	Serious burning of skin or eye injury	1	4	5
Connect all poolside electrical connections from laptop to surface enclosure	Electrocution	1	5	6
Connecting tether to ROV and laptop	Arms or legs could get caught in tether	1	2	3
Connect tether to power supply	Electrocution	1	5	6
Check deployment area	Electrocution	1	5	6
Move ROV onto launch platform	Falling into the water	1	2	3
Launching the rov	Rov damage	1	3	4
ROV Operation in Pool	Electrocution Falling into the water	1 1	5 2	6 3
Lifting the ROV	Injuries from falling objects Toe damage back strain Electrocution	1 1 1 1	3 3 4 5	4 4 5 6