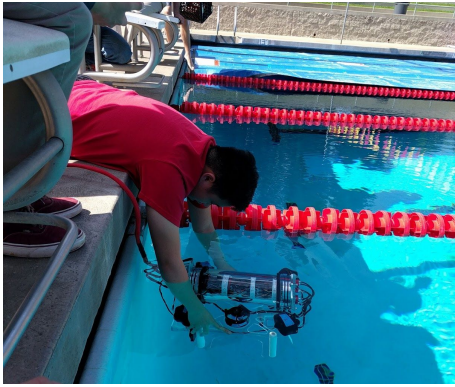




Job Safety Analysis (JSA) Form

Jesuit High School Robotics • 1200 Jacob Lane • Carmichael • California • United States of America
 • www.jesuitrobotics.org

Picture of task/equipment:	Task:	ROV DECK & WATER SAFETY
	Analyzed by:	Safety Lead & Deck Crew
	Date:	12/15/2015

Required Personal Protective Equipment:

- A buddy (never work alone)
- Life jacket (if conditions call for one)
- Non-slip shoes
- Eye protection

Required/Recommended Trainings:

1. Refer to "Rovotics' Operational and Safety Checklists".
2. Practice launching/removing ROV from deck.

TASK	HAZARDS	CONTROLS
Pre-launch	Slips / Trips / Falls	Wear non-slip footwear and inspect pool area for trip hazards before launching ROV. Keep an eye on the tether.
	Eye Damage	Wear safety glasses to shield your eyes from any possible hazards or material.
	Finger Damage	<ol style="list-style-type: none"> 1. Use safety-labeled ROV hand holds only. 2. Avoid placing fingers near thrusters
	Electrocution	<ol style="list-style-type: none"> 1. Verify power switches and circuit breaker on Tether Control Unit (TCU) are off. 2. Visually inspect inside the clear electronics housing for leaks. Make sure all electronics are dry.

		<ol style="list-style-type: none"> 3. Pay attention to the current ROV operating status lights. 4. Ensure all extension cords are in a safe condition with plugs and connections properly wired.
Launch and Retrieval	Back strain	<ol style="list-style-type: none"> 1. Confirm with mission command that ROV is in Safe Mode. 2. Kneel down. 3. Stay low and close to ROV. 4. Avoid sharp twisting movements. 5. Do not overreach for ROV. 6. To lower, bend the knees. DON'T STOOP. 7. Seek/Ask for help.
	Finger Damage	<ol style="list-style-type: none"> 1. Make sure thrusters, motors and all accessories are disabled and/or power is shut off to the vehicle before putting hands and fingers near thrusters 2. Use labeled ROV hand holds only.
	Drowning	<ol style="list-style-type: none"> 1. Never launch alone. 2. Ensure all personnel can swim or wear a life jacket. In some conditions, all personnel must wear life jackets.
	Sunburn	Sunhat / sunglasses / sunscreen / protective clothing
	Electrocution	If a leak is detected, immediately cut power to TCU.

