JOB SAFETY ANALYSIS WARRIORTIDES

Valley Christian High School, San Jose, CA 95111

All employees are required to comply with respective guidelines and measures when performing tasks.

Tasks	Potential Participant Hazards	Potential Product Hazards		
ROV Transportation & Integration				
1.Loading and Offloading ROV/Topside	Lifting injury, slippage, drop/impact injury	ROV and Topside impact/fall		
2.Directing teammates in a moving environment	Miscommunication, slippage/collision	Careening of ROV cart, etc.		
3.Asking for parts/tools/modifications	Miscommunication, bodily injur from tools, collision	Dropped/broken tools or parts		
4.Accessing 120ADC outlets	Electrocution/shock, explosion/flames	Major shorts to systems		
5.Diver/Prop Setup	Drowning, Laceration	Collision, tangling		
ROV Setup/Breakdown				
6.Enabling AC and DC system power Discharge/Shock		Major Shorts to systems		
7.Inspecting systems and auxiliary device+copilot setup	Miscommunication, collision, shock	N/A		
8. Activating ROV and moving to poolside from topside station	Collision/drop impact with ROV, laceration, tripping, lifting injury, etc.	g ROV and Topside impact/fall		
9. Dry systems test	Impact with ROV	Electrical shorting, ROV damage		
Poolside Operation				
10. ROV deployment/retrieval from pool	Injury from lifting, tripping	Injury from lifting, tripping ROV impact/fall, tether damage/strain		



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Tasks

Safety Measures

1	Proper lifting form, appropriate attire(closed-toed shoes), environment inspection(dry, obstacles, etc)			
2	Projected voice, stoppage keywords, no mobile devices/distractions, multiple people handling ROV cart			
3	Recipient is informed and attentive, bladed/sharp tools are handled carefully	Part/tool is clearly identified and properly handled		
4	Confirm that outlet is GFCI-protected, insertion point is dry and clean	Make sure all system switches are open, test power system by system		
5	Always have certified adult supervisor on deck, only deploy trained divers	Never have ROV in pool with diver, immediate notice of entanglement by tether management		
6	Proper lifting form, appropriate attire(closed toed shoes)	ROV carefully held by at least two team members		
7	No live circuits during inspection, projected voice and keywords, deliberate movements that decrease the risk of collision or slippage			
8	ROV is not powered, clear path is formed for 2 ROV carriers, projected voice and keywords			
9	Thrusters are run minimally, ROV carefully observed, all members at a distance from ROV			
10	Proper lifting form, neatly managed tether	Always deployed in water by 2 team members, strain relief checked for efficacy		
Notes:				

• Appropriate safety gear varies depending on task, includes safety glasses, gloves, face shields, etc.

• Moreso applicable to ROV fabrication

• Employees are expected to wear weather-appropriate clothing for outdoors testing

- All employees are expected to read the JSA completely and follow all safety measures
- Valley Christian High School is responsible for certification of adult supervisors and divers

