

# WUROV Job Safety Analysis

TASK	HAZARDS	CONTROLS
1. Transporting the remotely operated vehicle (ROV) to the designated pool test location.	Wet Floors: slipping or falling on wet surfaces may result in injuries such as bruises, muscle strains, deep cuts, bone fractures, and potentially head trauma.	Remember to wear shoes with slip-resistant soles, make wide turns at corners, and be careful of slippery patches. Must wear closed-toe shoes.
2. Participating in launch preparations, such as setting up the surface station and connection to the ROV.	Electrical Hazard: an example of electrical equipment that can potentially lead to electrical shock injuries are extensions cords. Further, water on an extension cable has the potential to create a short circuit in electrical devices.	Examine for ungrounded equipment, electrical currents, and uninsulated cables.  In accordance with safety protocols, inspect all electrical wiring and extension cords in the ROV for security and damage before placing it in the pool.
3. Tether management throughout the deployment and recovery of the ROV procedures.	Safety Hazard: Improperly detangled tether may create circumstances that may result in slips, trips, and falls.  Miscommunication: Possible injuries and challenges in retrieving the ROV might occur due to the failure or separation of the strain relief or a misunderstanding of the tether position.	Ensure that the tether is untangled and remains organized with the use of a spool of keep the cable rolled. Further, make sure that during the operation of the tasks that the tether does not run through highly trafficked areas.
4. Lifting and maneuvering the ROV into and out of the pool, as well as retrieving and handing of props/floats during the pool test.	Ergonomic Hazards: Lifting the ROV repeatedly when placing it into the pool or draining the water inside the frame may result in back injury and potentially further injury due to dropping the ROV. Additionally, while gripping the ROV, untrimmed zip ties or sharp edges may cause cuts.	Training is needed to adjust body positioning and posture when lifting the ROV and coordination between two team members to minimize strain. Additionally, communicate any changes and request assistance from lifeguards to ensure member falls into the pool.
<b>Required Training:</b> It is necessary to undergo comprehensive training to fully understand and follow safety regulations and ensure the team's preparedness during the operation of the ROV.	<b>Required Personal Protective Equipment (PPE)</b> The following safety gear is required for the tasks: safety glasses, gloves, and closed-toe shoes.	
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