

Job Site Analysis (JSA)

Task	Hazards	Controls
1: Entering/exiting the pool deck area	Slipping	<ul style="list-style-type: none"> All team members must wear closed toed shoes with a good grip. Inform judges and team members of any puddles in the workspace.
	Dropping objects	<ul style="list-style-type: none"> Ensure all team equipment is contained and can be comfortably carried to the workstation.
	Lifting strain	<ul style="list-style-type: none"> Heavy objects should be carried by multiple people.
2: System set up	Getting water on equipment	<ul style="list-style-type: none"> Keep all equipment except the ROV and ROV attachments out of the water. Take care to ensure that non-ROV cables do not contact the water.
	Tripping over wires	<ul style="list-style-type: none"> Keep the ROV tether away from the rest of the setup wires. Lay all wires flat on the ground when crossing pathways and coil them out of the walkway when there is excess.
	Environmental threats	<ul style="list-style-type: none"> Check the weather before and during an attempted run of the ROV in outdoor pools.
3: Power up checks	Shock hazard	<ul style="list-style-type: none"> Ensure all wires are properly connected and non-tether wires are clear of the water.
	Voltage Spikes	<ul style="list-style-type: none"> Connect power supply before turning on the ROV.
4: Pool side operations	Tether operator slipping or falling into pool	<ul style="list-style-type: none"> Train the tether operator how to properly stand, coil, and feed during operations. Always have a trained lifeguard present.
	Injury from ROV	<ul style="list-style-type: none"> The tether operator should wait 3 seconds after getting confirmation from the driver to interact with the ROV.
5: System breakdown	Slipping	<ul style="list-style-type: none"> All team members must wear closed toed shoes with a good grip. Inform judges and team members of any puddles in the workspace.
	Dropping objects	<ul style="list-style-type: none"> Ensure all team equipment is contained and can be comfortably carried to the workstation.
	Lifting strain	<ul style="list-style-type: none"> Heavy objects should be carried by multiple people.