

Job Safety Analysis

Macau Pui Ching Middle School

Achelous



Task	ROV deck and water safety
Analysed by	safety lead and deck crew
Date	

Required Personal Protective Equipment

- goggle
- mask
- ear muff
- slip-resistant shoes

Required/Recommended Pieces of Training

- Beware of using large machines
- Familiarize yourself with the entire ROV competition process and work safely with all departments.
- View the list of safety inspections for more information

Job Step	Potential Danger	Reducing Risk Methods	people in charge
Place the control station by the pool	<ol style="list-style-type: none"> 1. Damage to devices due to improper handling 2. Damage to team members as a result of lack of care 	<ol style="list-style-type: none"> 1. Make sure that everyone is focused on the current mission 2. Ensure that devices are handed off appropriately, and PPE is worn at all times 	all pool deck
Setting up the laptop and controller	<ol style="list-style-type: none"> 1. Inattentional damage to the computer's connecting point 	<ol style="list-style-type: none"> 1. Plug wires into laptop slots gently and completely 	Bryan and Noah
Tether connecting for power source and laptop	<ol style="list-style-type: none"> 1. Laptop damage from an electrical discharge 2. Electrical shock from an unsecured wire 3. Falling due to an exposed tether wire 	<ol style="list-style-type: none"> 1. Verify that the appropriate fuse is in the fuse container 2. Inspect the whole tether to ensure that all wires are correctly insulated 	Bosco
Make sure that every electrical connection is securely attached	<ol style="list-style-type: none"> 1. Electric shock from exposed cables 2. Electrocution-related ROV damage 	<ol style="list-style-type: none"> 1. Make sure the power source is connected. 2. Check the ROV's power supply is linked correctly. 3. Verify all ROV wiring is done correctly and that there are no exposed wires. 	Sifong and Bosco

<p>Commission all of the ROV's systems initially and make sure they are functional</p>	<ol style="list-style-type: none"> 1. Potential system overload caused by excessive voltage 2. Debris becoming stuck inside the thrusters might cause damage to them 	<ol style="list-style-type: none"> 1. Make that the power source has the appropriate voltage 2. Verify that all of the thrusters can revolve freely and are free of debris 	<p>Bosco</p>
<p>Lower the ROV into the pool</p>	<ol style="list-style-type: none"> 1. possibly causing the tether's tension damage 2. Potential pressure on team members' backs 	<ol style="list-style-type: none"> 1. As the ROV is lowered into the pool, support it using the frame's secure points 2. As the ROV is being lowered into the pool, make sure that several persons are doing it to distribute the strain 	<p>Bosco</p>