



# Job Safety Analysis (Robo-Tech)

<b>TASK</b>	<b>HAZARD</b>	<b>COTROLS</b>	<b>Responsible Member(s)</b>
Transporting Megalodon	<ul style="list-style-type: none"> <li>• Falling</li> <li>• Slipping</li> <li>• Back injury</li> </ul>	<ul style="list-style-type: none"> <li>• Keep a Clean and wet environment at all of times</li> <li>• Wear non-slip footwear to avoid slipping</li> <li>• Reduce the amount of weight lifted</li> </ul>	All members
Using sharp tools	<ul style="list-style-type: none"> <li>• Hand injury</li> <li>• Eye injury</li> </ul>	<ul style="list-style-type: none"> <li>• Wear safety gloves</li> <li>• Wear safety glasses</li> </ul>	All members
Soldering circuit board and other electronic components	<ul style="list-style-type: none"> <li>• Fire hazard</li> <li>• chemical inhalation</li> </ul>	<ul style="list-style-type: none"> <li>• Turn off soldering iron when it's Not used</li> <li>• Remove combustibile materials from work area</li> <li>• know the location of fire extinguishers and first aid kits in case of emergency</li> <li>• Perform work in a well-ventilated area</li> </ul>	Electrical members
Pneumatic System	<ul style="list-style-type: none"> <li>• Maximum pressure allowable</li> </ul>	<ul style="list-style-type: none"> <li>• Use pressure relief valve set at 10 bar, the allowable pressure for tank</li> </ul>	Mechanical members

Drill Press	<ul style="list-style-type: none"> <li>• Hand injury</li> <li>• Finger injury</li> </ul>	<ul style="list-style-type: none"> <li>• Use designated clamps</li> <li>• Keep hands clear</li> </ul>	All members
Managing the tether	<ul style="list-style-type: none"> <li>• Tether damage</li> </ul>	<ul style="list-style-type: none"> <li>• Supply enough tether to the ROV to prevent excessive tension on the tether</li> </ul>	Tether man
Maintenance	<ul style="list-style-type: none"> <li>• Electric shock</li> </ul>	<ul style="list-style-type: none"> <li>• Verify all power in control box is off and wait 5 sec</li> <li>• Operator must wear non-electrically conducting gloves</li> </ul>	Electrical members
Setting up power supply	<ul style="list-style-type: none"> <li>• Overvoltage</li> </ul>	<ul style="list-style-type: none"> <li>• Check the voltage reading that it shows nominal 48V</li> <li>• Use control status indicator LED</li> <li>• Use fuses on powerlines preventing drivers and DC-DC converters to burn out</li> </ul>	Electrical members