



# Crusader Robotics

Brother Rice High School, Chicago, IL

“Crusader Robotics... A Crusade for a Better Tomorrow”



## Job Safety Analysis

JOB TYPES	POTENTIAL HAZARDS	SAFE JOB PROCEDURES
Electrical ROV Work	<ul style="list-style-type: none"><li>• Cuts</li><li>• Electrocutation</li><li>• Burns</li><li>• Eye injuries</li><li>• Fire</li></ul>	<ul style="list-style-type: none"><li>• Proper tools - wire cutters - wire strippers</li><li>• Anderson power plugs</li><li>• Proper glasses</li><li>• Proper clothing</li><li>• No flammable objects in the area</li><li>• No horse play</li><li>• Proper Safety gloves</li><li>• Remove all flammable objects from the area</li></ul>



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## Mechanical ROV Work

- Soldering iron - sever burns sharp edges, and splatter
- PVC cutters - cutting off limbs, puncturing blood vessels
- Drill - cuts and burns
- Hot glue gun - mild burns
- Scissors - cuts
- Utility knives - cuts, puncturing blood vessels
- Wire cutters - cuts
- Staplers - puncturing skin, bleeding
- Zip ties - lost of blood flow
- Saw - dust from pvc that can be inhaled/ in eyes
- Batteries - have potential to leak or explode, harming individuals
- Flammables near heat catching objects
- Clean tools and maintain a safe workspace.
- Wear protective gear, including goggles, gloves, closed- toe shoes, etc.
- Make sure no tools are still out and that they are placed in proper location.
- Communicate with team members and avoid horseplay.
- Train beginners how to use tools at beginning of the year.
- Store batteries correctly and handle them carefully on designated charging station.
- Keep flammables away from other heat sources.



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## ROV Operation in Water/Pool

- Slip and fall
- Tripping on wires
- Electrical hazards
- Drowning
- Cuts from ROV
- Moving of ROV
- Proper foot wear
- Keep pool deck neat
- Tape down
- GFCI protected outlets
- On duty lifeguards
- Proper lifeguard equipment
- Vigilance
- Proper lifting technique
- Mounted power strip
- Shrouding