# JOB SAFETY ANALYSIS 2017

## KNIGHTS OF POSEIDON: RANGER TEAM

Argo Community High School  
7329 W 63rd St, Summit, IL 60501

<table>
<thead>
<tr>
<th>Task</th>
<th>Hazards</th>
<th>Controls</th>
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</thead>
</table>
| 1. Cutting PVC Pipe with Hand Cutters     | • Not paying attention to cutting  
• Fragments of pipe may hit someone’s eye when cutting | • Providing safety goggles  
• Given the correct information of cutting pipes |
| 2. Cutting Acrylic and/or Aluminum with Band Saw | • Placing hand in the line of cutting  
• Using only one hand  
• Leaving the band saw on unattended | • Providing safety goggles  
• Going through a step by step procedure before using the machine |
| 3. Sanding Down Acrylic and/or Aluminum   | • Leaving the sanding machine on unattended  
• Touching the sanding machine as it is moving  
• Not wearing safety googles  
• Wear loose clothing or jewelry | • Providing safety goggles  
• Going through a step by step procedure before using the machine |
| 4. Using a Metal Lathe                     | • Turning on the machine with the chuck key still in place  
• Shredding off too much material at a time | • Providing Safety Goggles  
• Going through a step by step procedure before using the machine  
• Have a full understanding of the machine |
<table>
<thead>
<tr>
<th></th>
<th>Touching the machine while it is still rotating</th>
<th>Inserting an object into the chuck incorrectly</th>
<th>Not tightening the tool in the tool holder</th>
<th>Not using safety googles when using the lathe</th>
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</thead>
<tbody>
<tr>
<td>5. Using a Soldering Iron</td>
<td>Filing the iron when it is turned on</td>
<td>Flicking solder without caution</td>
<td>Not placing a soldering iron in a holder when it is not in use</td>
<td>Be aware of your surroundings</td>
</tr>
<tr>
<td>6. Using a Drill Press</td>
<td>Not positioning the object correctly when drilling</td>
<td>Not using oil to lubricate the drill</td>
<td>Letting go of the turning wheel suddenly</td>
<td>Providing safety goggles</td>
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<tr>
<td></td>
<td>Placing a drill bit incorrectly into the chuck</td>
<td>Not anchoring a workpiece before drilling it</td>
<td>Not putting the protection guard in place</td>
<td>Going through a step by step procedure before using the machine</td>
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<td>Not putting the protection guard in place</td>
<td>Have a full understanding of the machine</td>
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</tbody>
</table>
| 7. Gluing PCV Pipe | • Not wearing any gloves  
• Not working in a well-ventilated area | • Providing gloves  
• Read the instructions on the packaging carefully |
|---|---|---|
| 8. Applying Epoxy | • Touching the epoxy after it has been mixed  
• Mixing the epoxy in a non-ventilated area  
• Using epoxy on top of an uncovered area  
• Not wearing gloves when applying epoxy | • Providing gloves  
• Read the instructions on the packaging carefully |