# JOB SAFETY ANALYSIS (JSA)

In every task, members are required to stop and alert our Head of Safety if they observe any unsafe practices. Everyone must follow the guidelines specified in our safety checklists, as well as the control measures listed below.

<table>
<thead>
<tr>
<th>TASK</th>
<th>POTENTIAL HAZARD(S)</th>
<th>CONTROL MEASURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Working with power tools</td>
<td>Sharp blades / drill-bits, Improper conduct and/or handling of tools, Electrical shorts, Debris discharge</td>
<td>Participants must be supervised by another team member. Participants must handle all tools correctly, keeping fingers away from the cutting area. Participants must make sure that the tool is plugged in correctly and only when in use and that their workspace is clean (especially of liquids). Participants must wear proper safety gear for the tool they are handling (e.g. safety goggles).</td>
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<tr>
<td>2 Working with saws</td>
<td>Sharp blades, Improper conduct and/or handling of saw, Debris discharge</td>
<td>Participants must handle all tools correctly, keeping fingers away from the cutting area. Participants must wear proper safety gear for the tool they are handling (e.g. safety goggles).</td>
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<tr>
<td>3 Handling epoxy and other chemicals</td>
<td>Skin and/or eye irritation, Allergic respiratory reactions</td>
<td>Participants must wear gloves and safety goggles when working with chemicals. Participants must touch their eyes or mouth while working with chemicals.</td>
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| 4    | Working with electronics | Electrical shorts  
Contact with live parts resulting in shock  
and/or burns  
Fire or explosion | Participants must make sure that their workplace is clean and free of liquid  
Participants may use no more than 12 volts  
Participants must use correct wire for the intended current  
Participants must use proper grounding  
Participants may never leave wire exposed  
If a participant is electrocuted, another member must call 911 immediately and NOT touch the participant |
| 5    | Soldering | Burns  
Fumes  
Soldering “spitting”  
Lead exposure | Participants must be supervised by another team member  
Participants must only touch the handle of soldering iron  
Participants must return the soldering iron to its stand when not in use  
Participants must keep the sponge wet  
Participants must wear safety goggles  
Participants must use tweezers or gloves to hold solder |
| 5    | Swimming / Mission Set Up | Drowning  
Disease | Participants must be capable swimmers before entering the pool  
The pool must be properly cleaned and treated before swimmers may enter  
Swimmers must carry only prop at a time to the bottom of the pool |