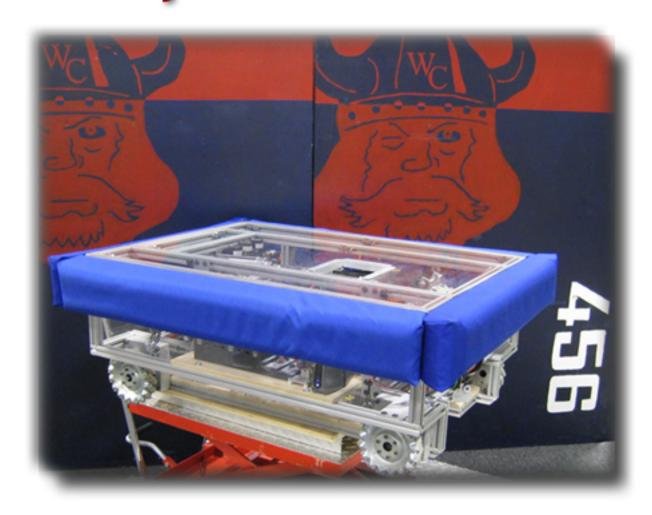
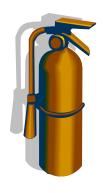
Siege Robotics Presents



2010 Team Guide For SAFETY

SAFETY CHECKLIST

- □ First Aid Kit
- ☐ Material Safety Data Sheets (MSDS)
- ☐ Safety Glasses
- ☐ Gloves: acid-resistant and leak-proof and work
- □ Closed-Toe Shoes
- ☐ Hearing Protection
- ☐ Fire Extinguisher/Fire Blanket
- □ Baking Soda (to neutralize acids)
- ☐ Hair Ties/Bobby Pins
- ☐ Broom and Dustpan
- □ Disable Switch
- ☐ Injury/Accident Reports
- □ Every team member's medical history and emergency contact











SAFE PRACTICES

□ No Loose clothing
□ No jewelry
□ Long hair pulled back
□ Clean and organized pit area
\square Lift with legs, <u>NOT</u> with back.
□ Be aware.
\square Put robot in disable mode when uploading programs
□ Release all potential energy sources
\square Know what to do in an emergency.
\square Know where all emergency exits are.
☐ READ THE FIRST SAFETY MANUAL!





BASIC FIRST AID

Open wounds that are bleeding:

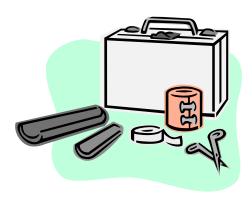
- 1. Wearing gloves, firmly apply direct pressure.
- 2. Call for medical assistance.
- 3. Lift wound above heart level.
- 4. Fold a firm pressure pad larger than the wound.
- 5. Place pad on wound, making sure the wound is covered.
- 6. Secure pad with a roller bandage.

Bruises:

1. Apply ice.

Scrapes:

- 1. Rinse with water and wash with soap.
- 2. Apply antibacterial ointment.





Basic Safety Rules For Hand Tools

- ALWAYS WEAR EYE PROTECTION.
- Wear the RIGHT SAFETY EQUIPMENT for the job.
- Use tools that are the RIGHT SIZE & RIGHT TYPE for your job.
- Follow the correct procedure for using EVERY tool.
- SHARP and in good condition.
- DON'T work with OILY or GREASY hands.
- Handle SHARP-EDGED and POINTED TOOLS with care.
- ☐ Always carry pointed tools by your side with the points and heavy ends DOWN.
- SECURE all small work & short work with a vise or clamp.
- ☐ NEVER carry tools in your pockets.
- DON'T use tools which are LOOSE or CRACKED.
- KEEP your punches & chisels in good condition. Mushroomed heads can chip & cause injuries.



- DON'T use a file without a HANDLE.
- DON'T pry or hammer with a FILE. It may shatter.
- DON'T use screwdrivers as chisels or pry bars.
- DON'T try to increase your leverage by using a "cheater" with a wrench. Wrenches are designed at the right strength for their size and length.
- ☐ AFTER USING A TOOL clean it and return it to its proper storage place.
- If anything breaks or malfunctions — report it to your instructor AT ONCE.
- ☐ Use the RIGHT TYPE of tool for the job.
- NEVER place tools & materials where they hang on the edge of a bench.
- ☐ Don't use tools for things they weren't meant for.
- ☐ Store tools and materials vertically, with the points and heavy end down.
- ☐ Cut away from yourself when you use chisels and other edged tools.
- DON'T FORCE screws; make sure that the correct screw for the job is being used.



Hand Tool Safety

Hand Tool Safety

The antics of Tim Allen on his TV handyman show within a show may be amusing in a sitcom, but in real life, improper use of hand tools can be painful and debilitating.

Injuries can go way beyond a smashed thumb caused by a misplaced hammer strike. In fact, it is estimated that hand tool mishaps are responsible for about 1 out of 12 compensable workplace injuries—including cuts and bruises, punctures, fractures, and even loss of a finger, hand, or eye.



Tool Safety Rules

The Hand Tools Institute, an association of hand tool manufacturers and suppliers, believes that most incidents are preventable if workers just follow basic safety rules. The five main points to remember are:

- 1. Always use appropriate eye protection to keep flying pieces and parts from contacting your eyes. The Hand Tools Institute suggests that employees keep their safety goggles in their tool box so that they can easily find them to use for every hand tool job. Other important pieces of protective equipment include work gloves that provide a better grip.
- 2. Use the right tools for the job. Each tool is designed to perform a specific function. It is dangerous to substitute or use an inappropriate tool.
- 3. Use tools properly, including proper positioning to avoid repetitive-stress type injuries.
- 4. Service your tools regularly. Follow the manufacturer's recommendations for performing proper maintenance on the tools.
- 5. Don't use damaged tools. Discard them immediately, fix them, or replace them.

Look at the Details

Just how do these rules apply to your tools? Here are some examples:

Pliers—Too many people use pliers as wrenches for turning nuts or bolts. This is not the proper function of a plier, which should be used for gripping or cutting wire. Discard pliers when they have developed chipped or dulled cutting edges.



Hammers—A hammer blow should be struck squarely and parallel to the surface being struck. Glancing blows can cause injury. Never use a hammer with a loose or damaged head or handle. Look for dents, chips, cracks, or other signs of wear and tear. Use riveting hammers for sheet steel, carpenter or claw hammers for driving and pulling nails, and ball-peen hammers for metal work.

Screwdrivers—Never use a screwdriver as a punch, wedge, pinch bar, pry, or chisel. Choose the proper size tip for the screw. The wrong size driver can cause a chewed up screw head, damaged screwdriver, and a bloody knuckle.

Wrenches—Don't try to extend the handle of a wrench with a cheater bar to add leverage. Instead, use a wrench with the proper-sized handle. Make sure the wrench fits the nut, or it could slip or break. If possible, pull the wrench instead of pushing it. The safest wrench is a box or socket type.



Drills, augers, and bits—may be incorrectly tempered or dull and otherwise worn.

Knives, chisels, drills—and similar tools may have lost the sharpness of their cutting edges. Sharpness is important to their safe use.

Files—may have missing or broken handles and tangs that are bent, broken, or chipped.

Chisels and punches—need to be checked for mushroomed or chipped heads and bent or broken points.

Safe Handling

Workers should be cautious in handling all of their tools. Correct usage and storage are important factors in preventing injuries. For example, tools should always be returned to their proper places when they aren't in use.

Tools should never be left on the floor where they can be a tripping hazard. Tools left on ledges or scaffolds may fall on someone.

Sharp tools should be stored so that their cutting edges aren't exposed.

Avoid carrying chisels, screwdrivers, and other pointy tools in your pocket. Use a carrying belt designed for this purpose with tools pointed end down or carry tools in a tool box or cart.

Tools should be handed from one worker to another, never thrown. Pass pointed tools with handles first.

If tools have to go from one level to another, a bucket or bag that will safely handle the tools should be secured to a rope for lifting or lowering.

Personal Protective Equipment

Another part of safe tool usage is using appropriate personal protective gear. This could mean safety glasses with hammers, files, and cold chisels; gloves with tin snips and other cutting instruments; safety hats and shoes when tools are used overhead or pieces of the work are likely to fall.

Avoid Repetitive Stress Injuries

Try to purchase ergonomically designed hand tools for your workers. Improve the ergonomics of the tools by training your employees to keep their wrists straight and their elbows close to their bodies. Comfort grips or properly fitted gloves can help reduce the stress on hands and wrists.

Summary

***** Choose The Right Tool

***** Make Sure It Is In Safe Condition

❖ Use It Properly And For The Purpose It Was Intended

❖ Store It Safety

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Emergency Contact Information Sheet

Member Name	Emergency Contact Phone #	Current Medication or Alerts

Accident Report Form

1. General Information Name of Injured______Birthdate_____Sex____ Address______Telephone_____ School_____ Date of Injury____ Time of Injury____ 2. Description of Accident 3. Immediate Action Taken A. First Aid Treatment: | Ice | Pressure | Wash | Bandage | Other B. Notification: Parent or other individual □ Yes □ No Time Method of Notification Telephone Number Called______By Whom_____ Name of Individual Notified_____ 4. Witness(es): Name_____Address____ Name_____ Address____

Date:

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