

Tools Training Timeline

MVRT
2011 – 2012 Season

Set Up

Set up the projector and the tables should be set up as stated below. (10 minutes)

Presentation

There are 12 slides in the presentation and most are simple tools but there are a few that are new things such as the caliper and the combination square as well as the rivet. (20-30 minutes)

Activity

There will be four tables set up in the back (10-15 minutes per table)

Table 1

Tools: Combination Square, Caliper, and other measuring devices, and pair them with the ratchet, screwdriver and the adjustable wrenches

Sample activity: Make a challenge using different size screws, screwdrivers and ratchet sizes so they have to make a “part” by using the right size. Make sure the activity requires students to understand the difference between metric and standard.

Table 2

Tools: Hacksaw, File, hand drill, Rivets

Sample activity: Drill a rivet into an L-plate and then drill out the rivet. Also, teach how to file the edges of the L-plate.

Table 3

Tools: Bosch and Allen keys (maybe steel wool) build a small box with the pieces or some sort of structure but try to incorporate all the pieces in this not just the gussets but the corner gussets and the 45 degree angle piece as well if possible

Sample activity: Put the yellow handled Allen key which is a similar size as a red handled 5 together with the red handled 5 and see if they can see the difference.

Table 4

Teach how to manipulate polycarbonate by using the cutting machines and the bending machine.

Clean Up

Answer any last minute questions and put everything back where it came from. (10 minutes)