

Engineering 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 14 slides in the presentation which consist of basic electrical and mechanical tools. (20-30 minutes)

Activity

There will be three tables set up in the back (15-20 minutes per table)

Table 1

Tools: Soldering Iron, Crimpers, Wire strippers

Sample activity: Have people strip a wire at both ends and solder it together into a circle. At the end, show off the different types of crimpers.

Table 2

Tools: Bosch, T-nuts, Gussets, Screws, Corner cubes, 5mm Allen key

Sample activity: Teach them about threads to make sure they understand how to put two pieces of bosch together with a corner cube. Let them create what they want with the pieces of bosch.

Table 3

Tools: Drill press, Hand drill

Sample activity: Have them drill into and out of an L-plate once with a hand drill and once with a drill press.

Medium Activity: Add a riveter and rivets. Have them rivet two pieces of L-plate together and then drill out the rivet.

Challenging Activity: Teach them how to take out a link of chain and have them practice.

Clean Up

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