Each team needs to complete three tasks.

1) Get checked out by Clinton on drill press, grinder, deburring wheel, bandsaw, and manual mill.

2) Choose a lab station, then:

a) study the construction and operation of the previous system at that station. Take photos before disassembly.

b) disassemble the existing system and put the components in the appropriate places.

i) fasteners go in labeled fastener drawers – use thread gage to verify thread pitch

ii) factory-made brackets go in the left bracket drawer, shop-made brackets in the right

iii) sensors and pneumatic actuators go in appropriate drawers and bins

iv) clean and tidy wiring may be left intact. Messy wiring should be removed and the wires put in a box in the electrical cupboard.

v) take photos after disassembly

3) Take a dead dry-erase marker and experiment with rejuvenating it. See what is required to remove the rear cap. Try squirting alcohol into the marker tip end with a syringe and needle. Drill a hole in the side, dispense alcohol in the hole with a syringe needle, and try resealing the hole by melting with a hot glue gun. See how well the marker performs after refilling with alcohol. Write up your observations and upload those observations and your before/after photos to the D2L dropbox.

Teams

Team 1:
Shawn Rantung (leader)
Hayden Kimes
Jamel Northover
Aaron Sullivan

Team 2:
Jared Singer (leader)
Alexander Fazio
Noahnna Slaton
Teddy Slaton

Team 3:
Christian Miller (leader)
Alex Aus
Colin Cheney
Spencer Welch