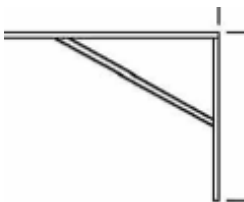


Lesson Plan

Curriculum: Welding

Objectives: To be able to successfully weld three pieces of square tubing together correctly following the plan provided. To be able to cut the required material to the correct length and angle. To be able to finish the project correctly following the plan.

Activities: After successfully completing the welds on the weld chart students will make a project to demonstrate competency. The students will receive a plan describing how to properly assemble this project. The students will be using 2" x 2" x .250" wall square tubing as well as 1/4" x 2" wide flat bar to complete this project. All edges joining the bracket together are going to be 45 degree angles. The 1/4" gusset will be welded flush with one of the two sides when sitting flat on a table so that when you look at the bracket as it were to hang on the wall it should be on the left or right side not in the middle. The second bracket made will be the opposite if the first project. One side of the project the welds will be exposed while the other will be ground down to flush with the metal. The students will need to pay attention to the flush side as the square tubing will have a radius around the edge and will require more weld to meet flush.



Assessment: Students will be assessed using a rubric for the project. Welds, will be one category.

Grinding flush will be another category. Craftsmanship will be a third category. Measurements correct will be the fourth category. And the last Category will be removing all sharp edges.

Products: When completed with this unit Students will have two shelf brackets made.