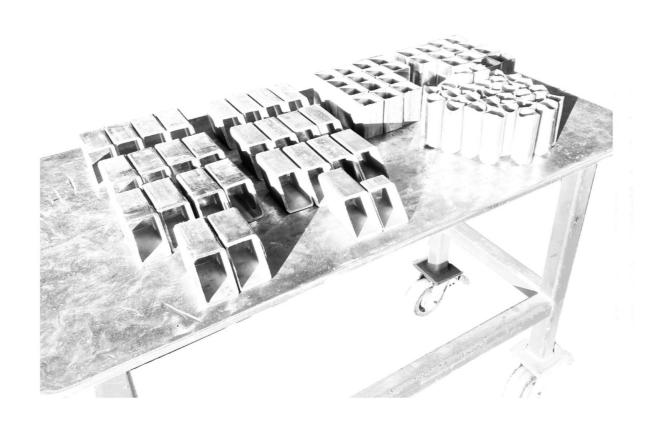
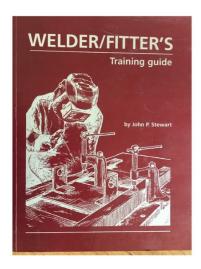
WLD 260: Beginning Fabrication.



Student Name:_____ Date:_____

CCOG for WLD 260: https://www.pcc.edu/ccog/wld/260/



1. Turn in chapter review questions from fabrication chapter in the Jeffus textbook.

Read the **Fabrication Techniques and Practices** chapter in the Larry Jeffus Textbook Complete all review questions at the end of the chapter and hand them in to your instructor.

Welder Fitter's Training Guide

The Welder/Fitter's Training Guide is an excellent book. For the beginning of this class we will work our way through some of the basic exercises. These may seem simple to some but they are important basic skills that we often need out in the field. Fitting something up properly before we weld it is a skill in itself, one we are usually expected to have.

Most of the tools required for these exercises can be checked out from the tool room. Most of these exercises can be drawn out on a large table in the Fabrication Bay.

1. Check the Fitter's guide out from the tool room for each class period it is needed.

Please perform the following exercises and have them inspected by your instructor.

Many of the exercises call for a specific size plate or circle to be used. You can simply lay these out on a table in most cases, or draw a rectangle, circle or square, instead of cutting one out.

LESSON 1: Alignment with Basic Tools

Exercise 1-2

Using a steel square draw angles 45°,60°,30°

Exercise 1-3

Using a steel square find the center of a 24" square plate (the square can be simply drawn on a table)

Exercise 1-4

Using the square from the previous exercise mark the center with a center punch. (this should be a very accurate mark)

Exercise 1-5

Check the trueness of a straightedge on a surface known to be true. This seems a bit odd but it is an issue that can occur. Check the edge of a framing square against the feed table of both shears.

- Exercise 1-9
- Exercise 1-10
- Exercise 1-11

Exercise 1-12

(a steel scale is a ruler)

Exercise 1-14

For this one try to locate four perfectly level surfaces in the shop.

LESSON 2: Laying out Plate

For these exercises, you can modify the size of circles to allow them fit onto a welding table.

Exercise 2-1

You can use the soapstone compass from the tool room for this instead of trammels.

Exercise 2-2

You can use dividers, trammels, or compass for this.

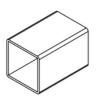
Exercise 2-3

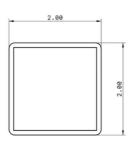
Exercise 2-4

Exercise 2-7

3

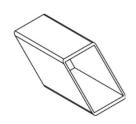
Cut-list for tube welding Projects

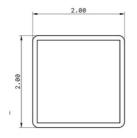


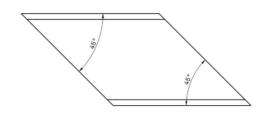




Part A			
Quantity	Initials	Dimensions	Initials
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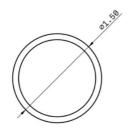


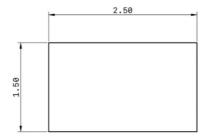




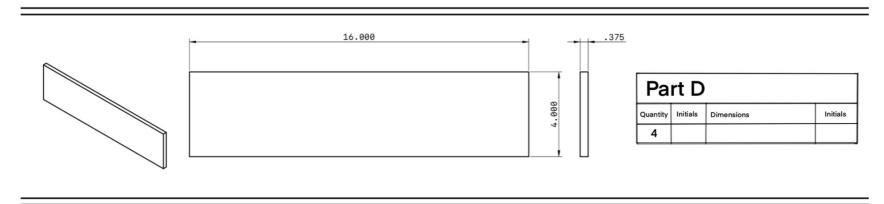
Pa	rt B		
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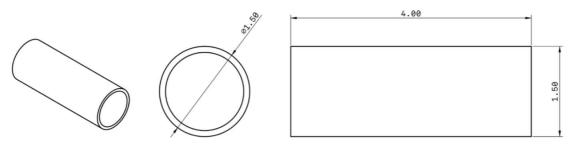




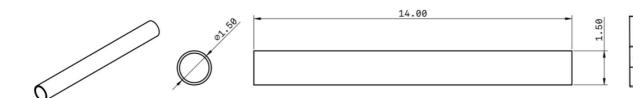


Part C			
Quantity	Initials	Dimensions	Initials
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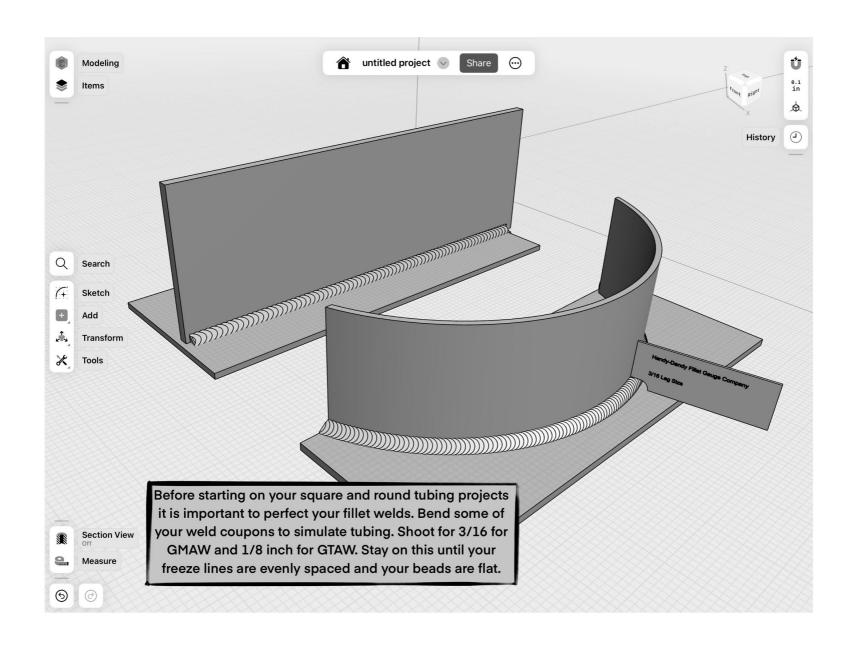


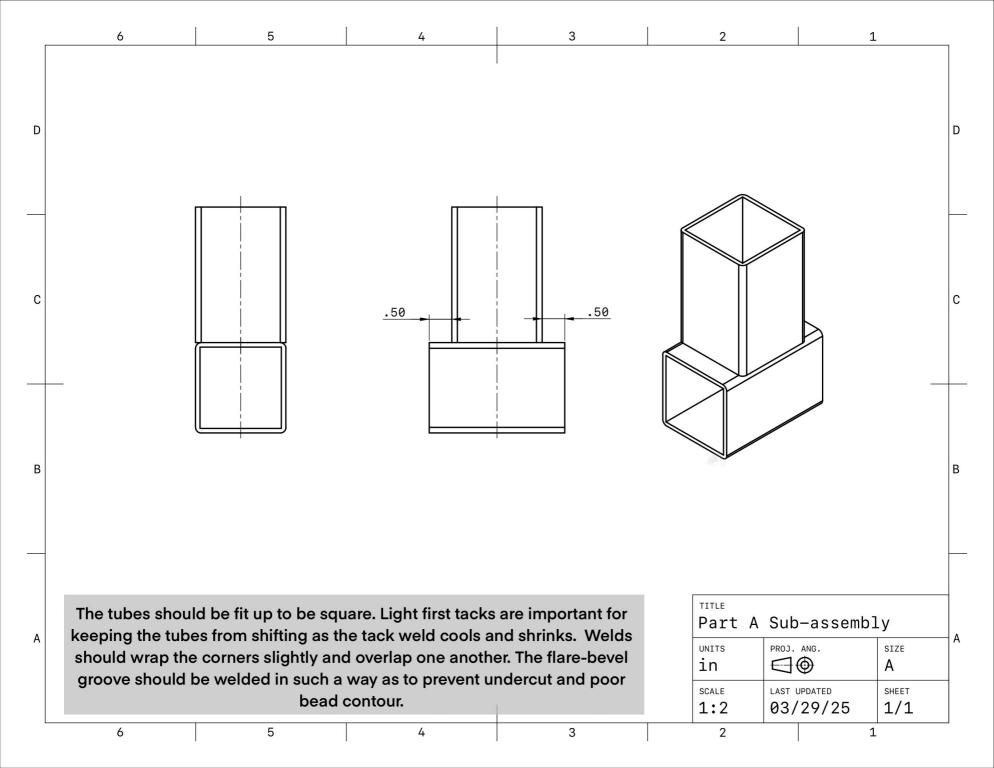


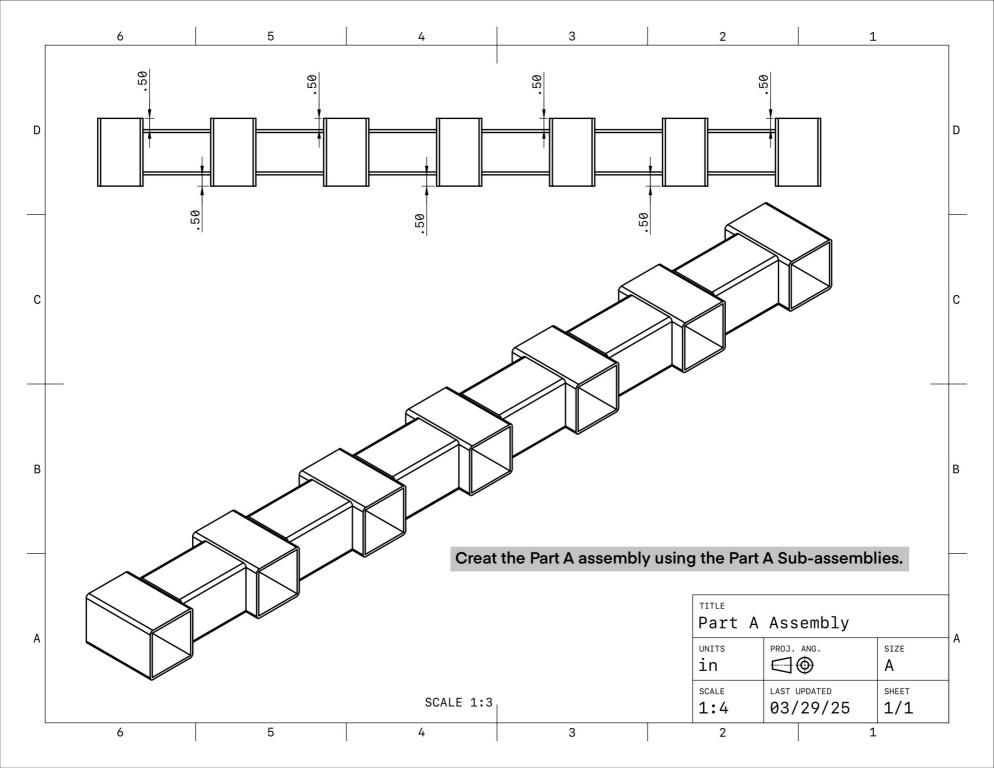
Pa	Part E		
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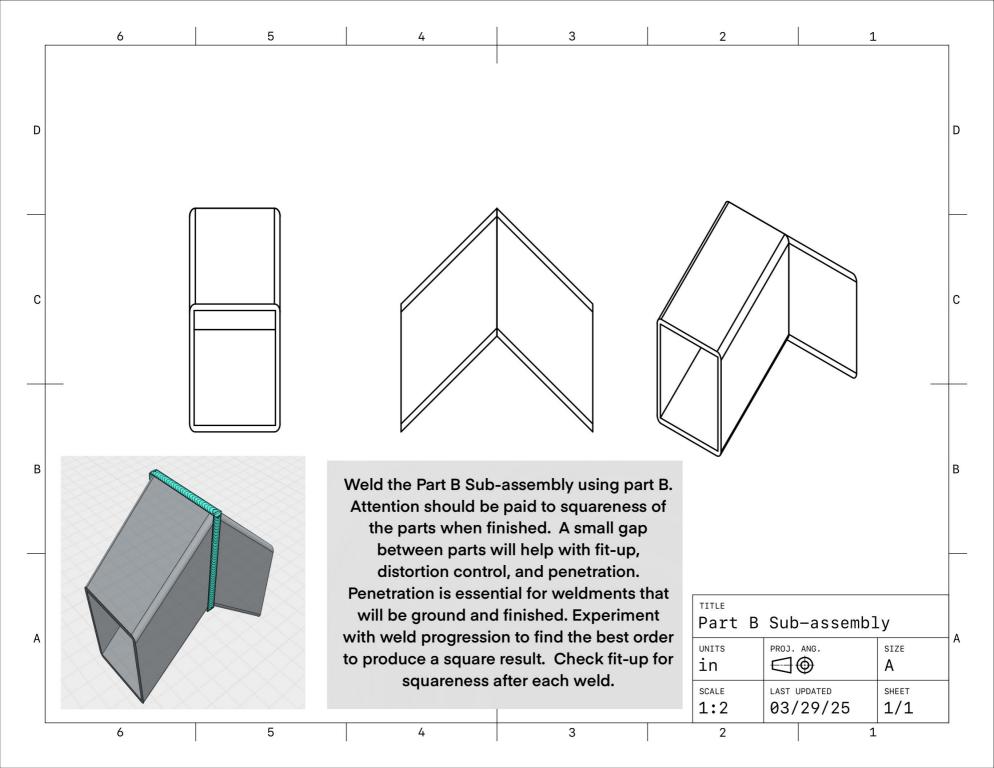


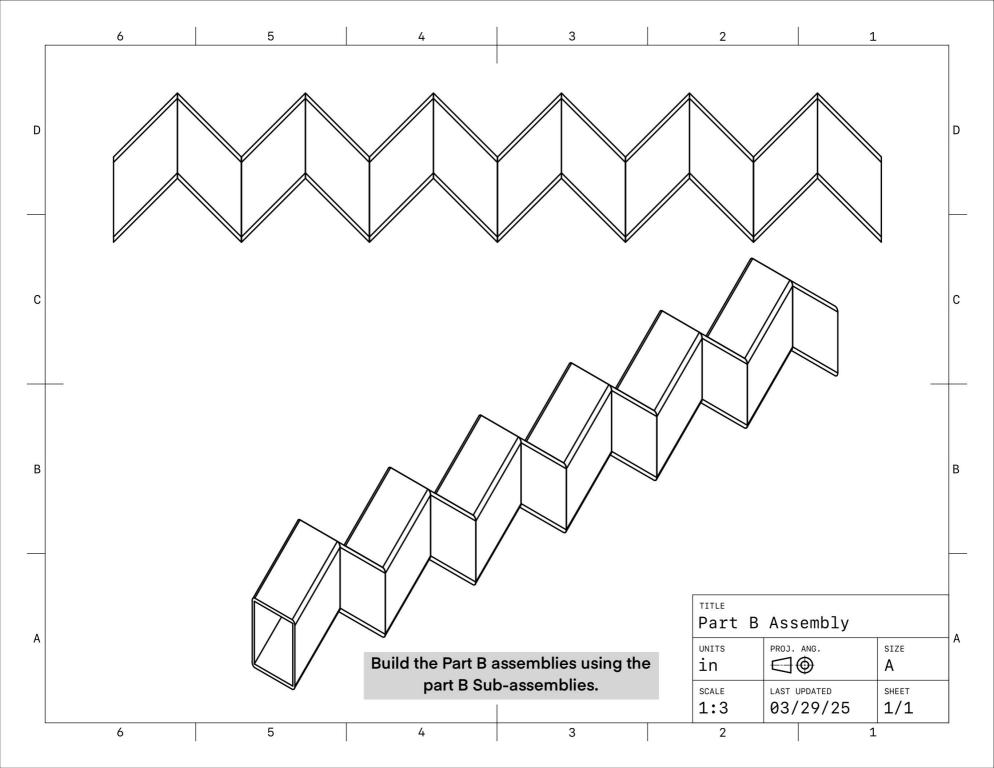
Part F			
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4			



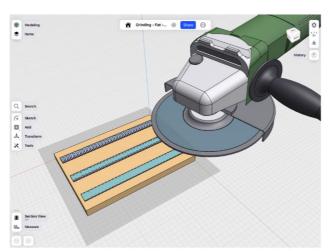


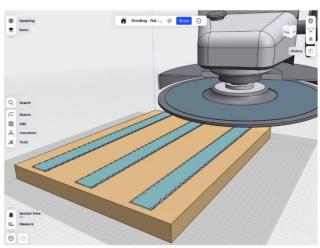






For this exercise weld 3 equally spaced beads on a 4 x 6 plate.
 Grind the welds down until they are just slightly proud of the plate surface. The object of this project is to not touch the plate at all with the grinding disk. Do not blend the weld with the surface. This project should be repeated until it is successful.

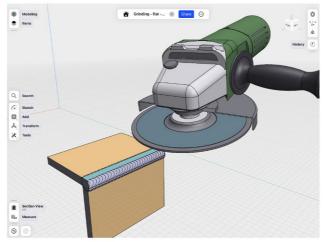


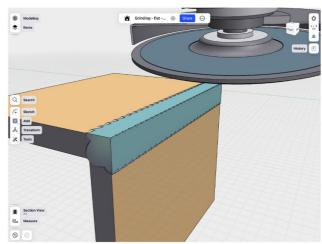


Be sure to clamp projects down before grinding.

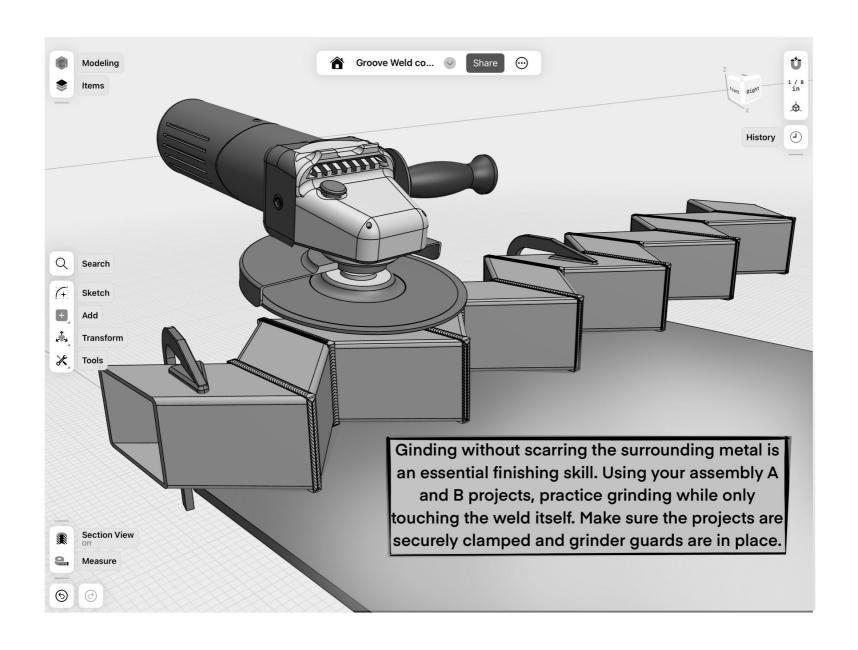
2. For this exercise weld a corner joint using two 4 x 6 plates. Build the corner up with multiple welds until the profile will yield a 90 degree angle after grinding nearly flush with the base plates. Grind one plane until nearly flush with the surface. Inspect the joint from the ends to determine if more welds will be required to fill out the finished 90 degree edge. Now grind the second plane and inspect the corner angle and be sure not to touch the plates with the grinding wheel. This project should be repeated

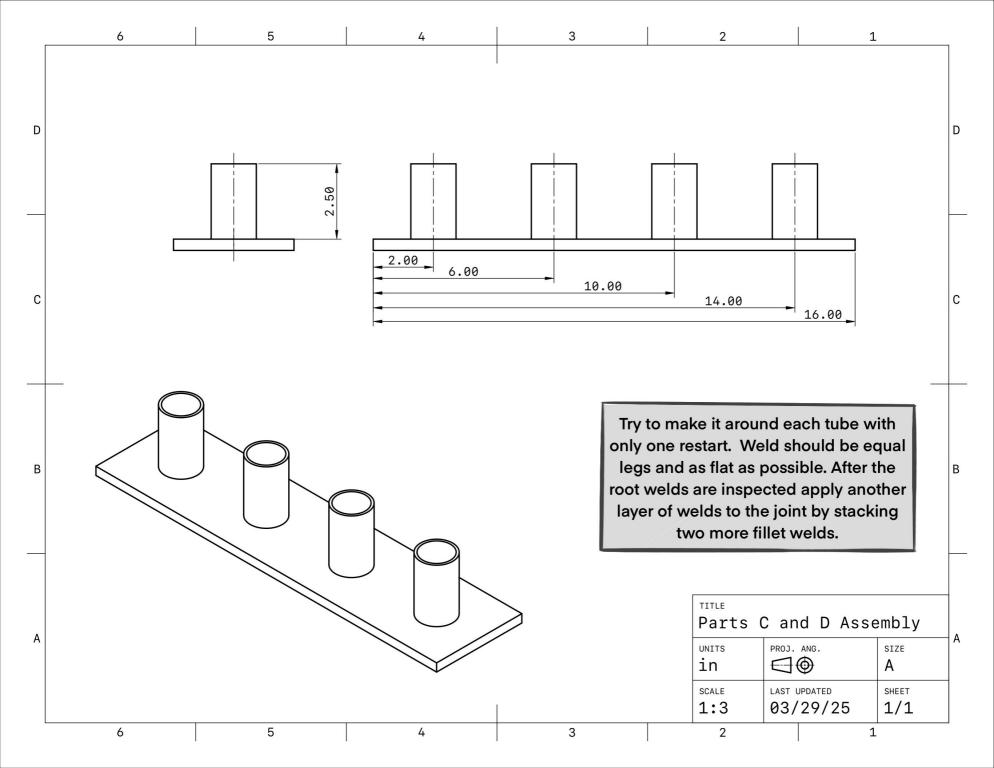
until successful.

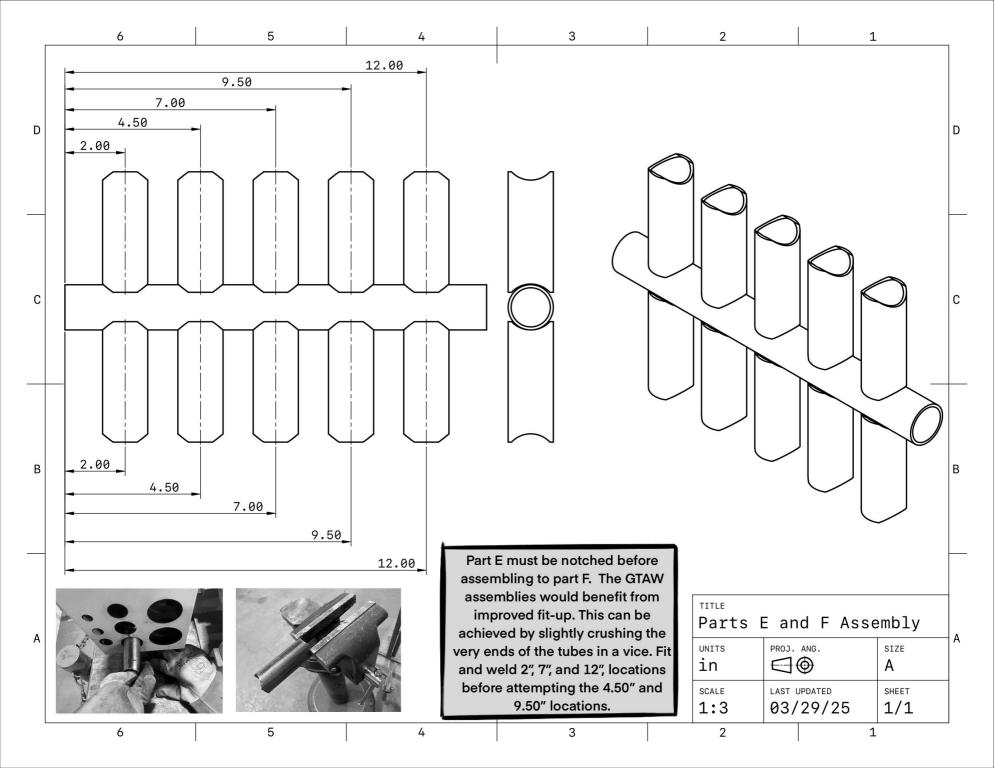




Grinding exercises Flat not flush.







WLD 260 Time Tracker Monday

Tuesday

Wednesday

Thursday

Week

!K				
1	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
2	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
3	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
4	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
5	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
6	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
7	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
8	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
9	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
10	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
11	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:
12	Hours/work done:	Hours/work done:	Hours/work done:	Hours/work done:

Write the hours for each day and a short description of what you did on that day.

Name:	Grading Sheet 260
Lesson 1:Alignment bas	c tools Lesson 2: Laying out Plate
exercise 1-2	Exercise 2-1
exercise 1-3	exercise 2-2
exercise 1-4	exercise 2-3
exercise 1-5	exercise 2-7
exercise 1-9	exercise 2-13
exercise 1-10	exercise 2-17
exercise 1-11	chalklines
exercise 1-12	
exercise 1-14	
Grinding and finishing	Tube Notcher :Saddle welds
exercise 1	GMAW
exercise 2	GTAW
Tools	Square tube welds
Band Saw	90° Miter
Iron Worker	90°Butt
Hand Drill	
Drill Press	Round tube to plate
Slip Rolls	GMAW
Break	GTAW
Shear	
Plasma	Chapter Questions