

Welding Skills Grading Criteria:

(Each Weld varies with each student, machine and metal type: the following points will be evaluated when analyzing your weld)
(Welds must pass with a 90% according to the American Welding Society for Weld Certification Analysis or a ReDo will occur.)

Grades will not be averaged; the highest grade will prevail until the weld attempted is mastered.

- . Depth of consistent weld puddle penetration _____
- . Travel speed of weld _____
- . Voltage setting _____
- . Ampere setting _____
- . Wire speed (MIG) _____
- . Correct electrode angle for position of weld (ARC) _____
- . Correct tip/gun angle (MIG, Oxy & TIG) _____
- . Direction of travel (Push vs Pull or Drag) _____
- . Porosity or Pinholes
 - * MIG Gas Setting _____
 - * Oxy Gas Setting _____
 - * Fuel Gas Setting _____
 - * Argon Gas Setting _____
 - * Polarity of Mig/Arc _____
 - * Electrode Manipulation _____
 - * Tip Selection _____

- . Undercutting (depth <math><1/16\text{''}</math>) _____
- . Distance from weld zone _____
- . Bead Width _____
- . Metal preparation (beveled) _____
- . TIG Polarity Setting matched to metal _____
- . Polarity matched to electrode _____

- . Correct electrode choice for position _____
- . Brake Test _____
- . Stress Test <math><1/8\text{''}</math> tear _____
- . Weld start/stop quality _____
- . Weld face angle to metal _____
- . Weld bead appearance _____
- . Overall weld strength _____

90% = 45/50 points possible for each weld.

Your Score _____

Instructor _____