Rubric Name: Welding Bead Rubric

Description: Students will use SMAW welding technics to weld butt weld. T-weld, lap weld, 6011 bead, 6013 bead, 7014 bead

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|  | **Advanced**  **4 Points** | **Proficient**  **3 Points** | **Developing**  **2 Points** | **Unacceptable**  **0 Points** |
| Weld Width and Height | Bead is uniform all along the length of each weld. Has a smooth appearance. | Bead maintains width and length. Shows some small blemishes along the weld. | Not a uniform thickness throughout the weld. Thickness goes to extremes. | Weld is cut off in places, not uniform along the weld. Shows bare spots. |
| Weld Appearance | Weld shows a consistent speed and uniformity the entire length. | Weld shows a constant speed with some blemishes that are minimal. | Weld shows definite areas of speeding up and slowing down. Ripples tend to be coarse. | Weld process was too fast or too slow. Weld is not complete. |
| Face of Bead | Has a nice rounded look. Is not overly high, or low. Bead covers a wider area of each weld. | Bead is well rounded, mostly uniform over the length of the weld. Shows some high and low spots. | Bead shows many high and low areas. Total lack of uniformity throughout the weld | Weld does not blend into one single bead. |
| Edge of Bead | Sides and edges are smooth blending into each weld. Undercutting is kept to a minimum, weld does not float on surface | Moderately smooth blending. Undercutting and float are present. Strength of the weld is still strong | Float and undercut are very apparent. Weld lacks strength and flow. | Metal is burned through. Weld has no connection to metal. |