

WELDER
Class Code 3796

TASK LIST - 2019

1. Lays out, cuts, bends, and fits material for welding by reading and interpreting drawings and blueprints, applying various welding, cutting and forming processes in order to fabricate appropriate product.
2. Welds high-pressure pipe section and fitting tanks, brackets, tanks, radiators, transformers, cases, frames, and automotive bodies by applying various welding, cutting and forming processes in order to perform fabrications and repairs.
3. Brazes ferrous metals by using the oxyacetylene process in order to join metals securely.
4. Hard-faces special parts requiring a high degree of hardness such as power shovel bucket teeth, grader blades, and cutting tools by using Flux Core Arc Welding (FCAW) and/or Shielded Metal Arc Welding (SMAW) methods of welding in order to achieve sufficient protection of the cutting edges and digging surfaces.
5. Builds up worn and undersized machine parts by welding in order to return part to original condition.
6. Inspects, approves or rejects contract welding by performing visual and/or dye penetrant inspection in order to determine if welds are in compliance.
7. Inspects welds for undercut, porosity and penetration by performing visual inspection of a welding sample in order to determine the quality of the weld.
8. Makes and uses templates and fixtures by referring to drawing or part in order to accurately fabricate fixtures and tools.
9. Heats metals by using oxy-acetylene torch in order to form, stress-relieve, or anneal metals.
10. Sets up, regulates, maintains, and makes minor repairs to welding equipment by performing regular safety checks on regulators, hoses, and torch assembly in order maintain equipment in proper working order.
11. Cleans, peens, and grinds completed welds by chipping, brushing, sanding, and grinding in order to inspect and approve final weld.
12. Operates SMAW, Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW) machines by following safety and operational procedures in order to safely and effectively perform welds.
13. Performs relieving or frame straightening on large automotive apparatus by skill heating in order to restore apparatus to original condition.
14. Assists welding supervisor in designing modifications in equipment by providing input from previous experience in order to create the optimal plan of repair.

15. Lays out and fabricates rolling pipe offsets with compound angles by calculating distances, angles, and offsets in order to achieve proper fit.