

APPRENTICE – METAL TRADES
CLASS CODE 3789
TASK LIST

1. Assists journey-level sheet metal workers using various hand and pneumatic, electrical, and hydraulic power tools (including shears, punches, beading machines, and brakes) in order to layout, cut, form, fabricate, assemble, repair and/or install a variety of power generating and/or water parts constructed of sheet metal in the shop and field.
2. Assists journey-level structural steel fabricators using various hand and pneumatic, electrical, and hydraulic power tools (including shears, punches, iron-worker, saws, rollers, electric arc, acetylene torch, brakes, overhead crane, and rigging) in order to layout, cut, form, fabricate, assemble, repair, and install all types of power generating and/or water equipment and structural parts in the shop and field.
3. Assists journey-level blacksmiths using various hand and power tools (including presses, anvil, hammer, welding machine, oxy-acetylene torch, rolling machine, tongs, chisels, and forge) in order to forge, shape, form, bend, cut, grind, weld, and/or heat-treat metal in the fabrication and/or repair of power generating and/or water tools, equipment, and metal products in the shop and field.
4. Assists journey-level weldors using various hand and power tools (including electric arc welder; inert gas-shielded arc welders, such as Tungsten Inert Gas (TIG), Metal Inert Gas (MIG), Flux Core Arc Welding (FCAW) and Shielded Metal Arch Welding (SMAW) welding machines; oxy-acetylene torch; plasma; water jet; and other welding, cutting, hard-facing, brazing, and soldering equipment) in order to fabricate and/or repair power generating and/or water tools and equipment in the shop and field.
5. Assists journey-level auto body repairers using various hand and pneumatic, electrical, and hydraulic power tools (including brakes, presses, frame alignment machine, shears, electric arc welder, ratchets, sanders, grinders, cutters, rollers, saws, screw drivers, wrenches, and other auto repair tools) in order to construct, repair, assemble, recondition, and/or modify vehicle bodies and body parts on transportation and construction equipment in the shop and field.
6. Attends and participates in instruction at the Metal Trades Training Center to learn about general shop and trade-specific safety, theory, practical application, and in trade-specific on-the-job training in the shop and field in order to make progress towards journey-level status.
7. Reads, reviews, and interprets diagrams, blueprints, specifications, layouts, sketches, and/or other pictorial displays of power generating and water tools (e.g., hydraulic operating shears and press brakes, sounding and prospecting bars), equipment (e.g., push carts), and parts (e.g., electrical boxes and duct work) as needed to complete electronically-generated and/or hand-written metal trades work assignments, such as layout, cutting, forming, fabrication, assembly, repairing, installation, construction, reconditioning, and modification of items pictorially displayed.

8. Follows safe working procedures as required and/or outlined in the Occupational Safety and Health Administration (OSHA) guidelines, Department of Water and Power (DWP) operating orders, and shop procedures for metal trades work using personal protective equipment (PPE), such as safety glasses, hearing protection, safety shoes, welding leathers, and welding helmets, in order to avoid injury to self and others, to maintain a safe work environment, and to prevent possible equipment damage.
9. Supports a fully-functional shop and work area by visually monitoring levels of inventory and identifying and labeling materials upon delivery with a paint stick, job number, project name, heat number, or other approved method and ordering additional supplies by verbally informing supervisor of materials needed, as required for an efficient and effective control of materials and to avoid over- and/or under-stocking of materials; keeps work areas clean and organized, and identifies broken and/or worn equipment by tagging it with a red card and follows proper procedures to repair, salvage, or replace such equipment.