The course is designed to teach skills in the MIG welding process, selection of materials and equipment, and welding safety. The focus will be on flat, vertical up, vertical down, horizontal, and overhead welds. Topics will include welding equipment (proper setup, shut down, welding cables and sizes, maintenance), OSHA welding and safety rules, blueprint reading and measurements, use and safety of grinders and tools, personal protective equipment, and preparing metal for welding. Emphasis will be on technique, and the ability to identify puddle, speed, and proper welding position.