The Academy of Welding focuses on the development and use of automatic and computer-controlled machines and tools that perform work on metal. Students will learn how to modify parts to make or repair machine tools or maintain individual machines, as well as how to use hand-welding or flame-cutting equipment.

The Manufacturing Career cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities, such as production planning and control, maintenance, and manufacturing/process engineering. Careers in Welding require an attention to detail and a physical ability to lift and move various-sized objects, as well as a proficiency in oral communication. Mathematical ability is needed when calculating angles and lengths as part of a welder’s daily tasks. Additionally, a good problem-solving ability and punctuality is required, as welders must not only judge their own work but also deliver it to clients in a timely manner.

Successful completion of the Manufacturing Technology program in Welding will fulfill the requirements of the Business and Industry Endorsement.