

Renovate Welding Shop

Somerset South Campus Somerset, KY

Owner: Kentucky Finance Cabinet - DECA

User Agency: KCTCS

Contacts: Scott Baker

Phone: 502.564.3155

Email: Scott.Baker2@ky.gov

Construction Cost: \$ 183,000

Project Status: Completed 2021

Project Description:

Project was located in Somerset South Campus Industrial Education Building. Existing welding system consisted of 100% tempered outside air. This recirculation system saves thousands of dollars per year in energy bills.



Engineering Highlights:

HVAC/Welding Exhaust System:

Existing welding exhaust system was based on low air velocity exhaust with 100% outside makeup air. The existing makeup air was tempered by a large gas fired outdoor furnace. This existing system was replaced with a new cartridge filter exhaust system that re-introduces the exhaust air back into the main space. This eliminates the need for heating the outside air in winter saving thousands in energy costs.

The new fume hood exhaust system also utilizes point source capture hoods that result in a cleaner and healthier environment for students.

Electrical:

Existing Federal Pacific Electrical Panels were replaced with new panels to make shop more safe and provide for additional power. New LDE lighting was added throughout to supplement existing lighting.

Schedule:

Project was scheduled to have all materials on site when classes ended for Summer and all work completed by the Fall semester. This was accomplished without any loss of class time.