



“The ECTC Team assists students in developing skills to become independent and self-sufficient adults who will succeed and contribute responsibly in a global community with a high-skill, high-wage, and high-demand career.”

Construction Academy: Welding

Career Cluster: Architecture & Construction / Manufacturing

Career Pathways: Construction / Production – Maintenance, Installation, & Repair

- Design, engineer, and troubleshoot complex manufactured projects for actual clients. Build and manage each of these to experience the full concept of manufacturing.
- Interpret blueprints and specifications using math and computer technology while operating and programming innovative, high-tech manufacturing equipment.
- Develop leadership qualities along with strength, work ethic, and stamina necessary for a great career in fabrication as well as a thorough understanding of safety concepts.

Career Focus:

Prepared for advanced certification, immediate employment in the construction/fabrication/erection field, and further education

Two-Year Course Sequence:

Year One		
Fall	Introduction to Welding	Applied Welding I with Plasma Arc Cutting
Spring	Applied Welding II with Carbon Arc Cutting	Applied Welding III with Groove Welds and Inspection
Year Two		
Fall	Applied Welding IV – Advanced Groove Welds and Testing	Gas Metal Arc Welding / Flux Cored Arc Welding
Spring	Gas Tungsten Arc Welding I	Gas Tungsten Arc Welding II

Student Organizations:

SkillsUSA and National Technical Honor Society (NTHS)

Credentialing:

NCCER (National Center for Construction Education and Research) Certification, AWS Certification, OSHA Fork Lift Certification, and NOCTI (National Occupational Competency Testing Institute) Certification

The ECTC Welding Program operates in conjunction with the Construction Academy. Enrollment in the Welding Program will enable the student to be exposed to introductory-level concepts in HVAC-R, Carpentry, and Masonry.