Architecture and Construction Foundations- 17002G1002

…is the first step in any of the three pathways (Construction, Design and Preconstruction, or Maintenance and Operations). Topics include construction mathematics; hand and power tools; construction drawings, specifications, and layout; communication; and material handling.

Welding: SMAW I- 13207G1001

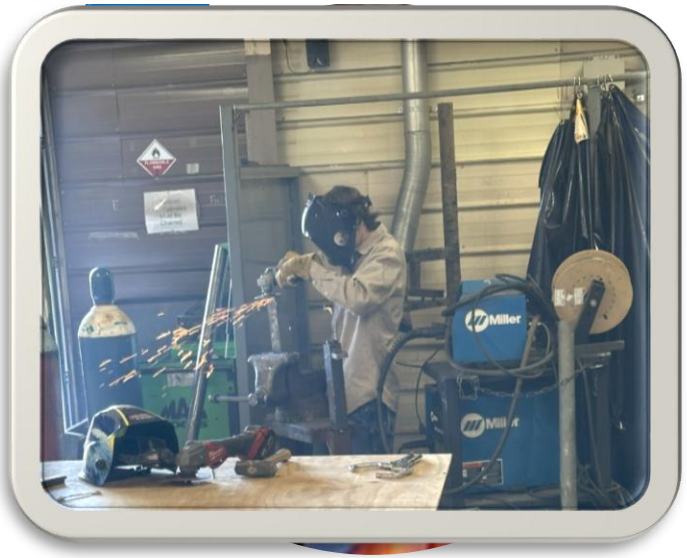
…is designed to provide a fundamental understanding of welding safety and basic shielded metal arc welding (SMAW) equipment and procedures. Standards are designed to equip students with knowledge and skills for setting up equipment, preparing surfaces, and performing safe oxy-fuel cutting and welding.

Welding: SMAW II-13207G1002

...presents information and skills needed to weld pipes and plates of various kinds. Topics include SMAW open-root pipe welds, plate welding, and stainless steel and carbon steel welding. The course also incorporates information about gas tungsten arc (tungsten inert gas) welding.

Welding Technology

NATIONAL CENTER FOR CONSTRUCTION EDUCATION AND RESEARCH



Winston Career Academy

Bryan Woods, Instructor
Winston Career Academy's Welding Program

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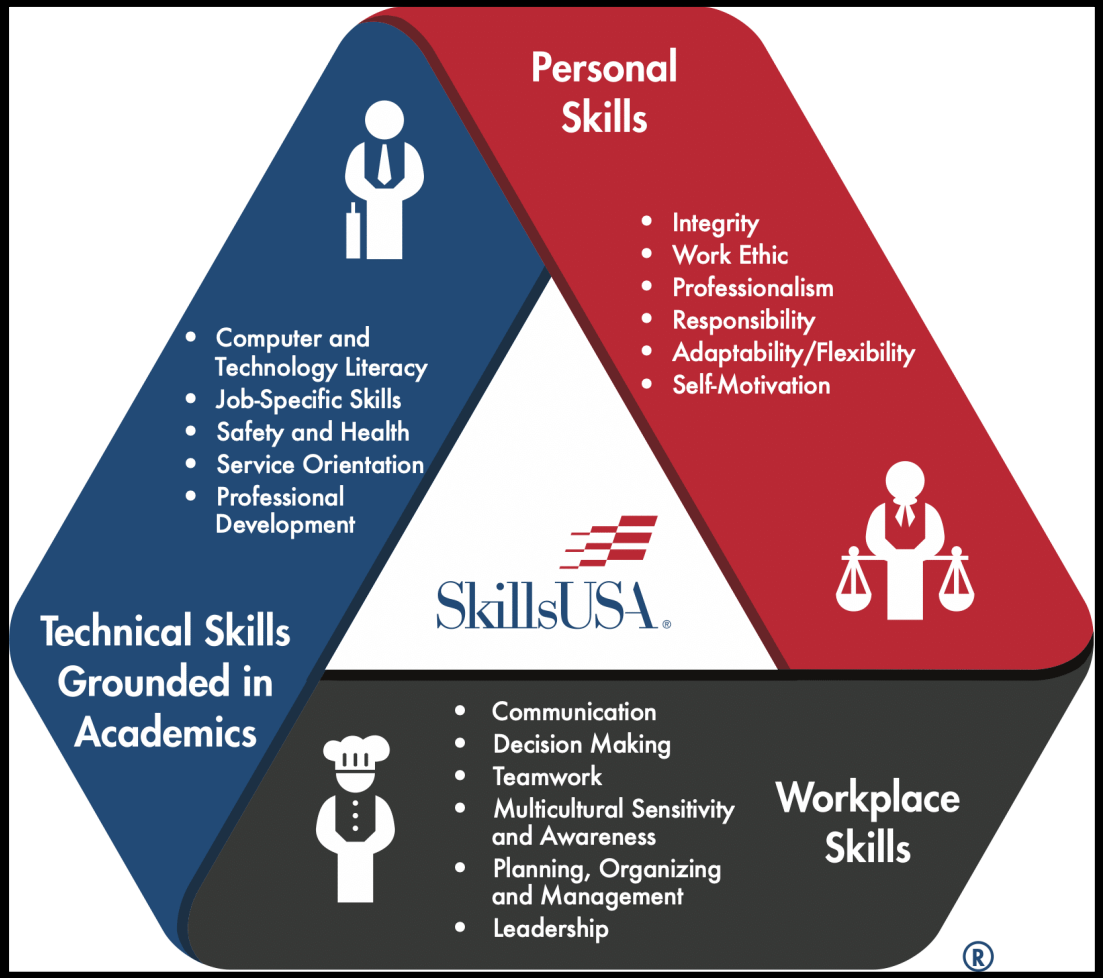

Learning that works for Alabama
CTE™

Architecture & Construction Foundations
SMAW Fillet/OFC LAB
Welding SMAW I
CTE Lab in Architecture & Construction
Welding SMAW II

Winston Career Academy
Welding Technology

SkillsUSA is an integral part of classroom instruction in each career and technical education program and is essential for the growth and development of a career-ready workforce. In conjunction with coursework completed in each cluster, CTSOs make a positive difference in the lives of students by developing their potential for leadership, personal growth, and career success. The purpose of this organization is to help students develop an understanding of all aspects of industry and technology while learning teamwork and leadership skills.

CTE Lab in Architecture and Construction is designed to enhance the student's general understanding and mastery of the cluster. This course is designed as a learning laboratory to support students' individual interests and goals. This laboratory may take place in a traditional classroom, in an industry setting, or in a virtual learning environment.

Alabama's Career and Technical Education programs empower students with the workplace-readiness skills necessary for success in the twenty-first century. The goal of Career and Technical Education Work-Based Learning courses and experiences is to equip students to be productive citizens who are prepared with the necessary knowledge and skills for postsecondary education and employment. Career and Technical Education provides opportunities for students to combine core academic content with rigorous and relevant technical knowledge, skills, and work experiences.