
2026-2027

PROGRAM GUIDE

ACADEMY OF CRAFT TRAINING PROGRAM



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ALABAMA STATE DEPARTMENT *of* EDUCATION

ALABAMA STATE DEPARTMENT OF EDUCATION
CAREER AND TECHNICAL EDUCATION
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The Academy of Craft Training (ACT) is a statewide, industry-driven training program in Alabama that prepares high school students for careers in construction and skilled trades. Operated in partnership with the Alabama State Department of Education and the Alabama Construction Recruitment Institute, ACT provides students with hands-on instruction, industry-recognized credentials, and real-world experience through job shadowing, internships, and direct placement opportunities.

Focused on addressing Alabama's workforce needs, the Academy equips students with the skills, knowledge, and professional behaviors required for high-demand careers in areas such as carpentry, electrical, HVAC, welding, and more. ACT students split their time between their home high schools and ACT training centers, where they receive specialized instruction from industry professionals. Graduates of the program are well-positioned to enter the workforce directly or pursue further education and training in the skilled trades.

Career Pathway Program	Commercial Construction Program		
	(Must teach three courses from this program list within two years)		
	The Commercial Construction Program provides students with foundational knowledge and hands-on training in core construction skills, including site preparation, framing, drywall, and finish work. Students learn to safely operate tools and equipment while gaining experience in teamwork, job site communication, and blueprint reading—preparing them for careers in commercial building projects.		
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
17002G1002	Architecture and Construction Foundations	- Alabama Certified Employee (ACE) - Construction and Skilled Trade Assessment (CAST) - Home Builders Association of Alabama Residential Construction Skills Certification - NCCER Cabinetmaking Level 1 - NCCER Carpentry Level 1 - NCCER Construction Technology Level 1 - NCCER Core (Module 6 is an elective and not required for CRI) - OSHA 10 + AHA Heartsaver CPR AED (Both areas are required) - OSHA 30 - Skills for Success – Asphalt Roller Operator - Skills for Success – Bulldozer Operator - Skills for Success – Carpentry Helper - Skills for Success – Electrical Helper - Skills for Success – Excavator Operator - Skills for Success – Flooring Installation Technician - Skills for Success – Mastering the Customer Experience - Skills for Success – Plumbing Assistant - Skills for Success – Skid Steer Operator	- Carpenters - Construction Laborers - Construction Managers - Cost Estimators - Crane & Tower Operators - Fence Erectors - First-Line Supervisors of Construction Trades & Extraction Workers - Glaziers - Helper – Installation, Maintenance, & Repair Workers - Operating Engineers & Other Construction Equipment Operators - Painters, Construction & Maintenance - Roofers - Sheet Metal Workers
02153G1001	Career Mathematics		
17047G1001	Career Pathway Project in Architecture and Construction		
17013G1070	Commercial Construction at ACT		
17002G1011	Construction Foundations Layout		
17017G1000	CTE Lab in Architecture and Construction		
17998G1050	Internship in Architecture and Construction		

Career Pathway Program	Electrical Program		
	(Must teach three courses from this program list within two years)		
	The Electrical Program introduces students to residential and commercial electrical systems, with a focus on safety, circuitry, wiring, and electrical code compliance. Through classroom instruction and lab-based learning, students develop the technical and problem-solving skills necessary for entry-level electrical work or apprenticeships.		
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
17002G1002	Architecture and Construction Foundations	- Alabama Certified Employee (ACE) - Construction and Skilled Trade Assessment (CAST) - Fundamentals of Electricity – AC/DC - NCCER Core (Module 6 is an elective and not required for CRI) - NCCER Electrical Level 1 - OSHA 10 + AHA Heartsaver CPR AED (Both areas are required) - OSHA 30 - Skills for Success – Asphalt Roller Operator - Skills for Success – Bulldozer Operator - Skills for Success – Carpentry Helper - Skills for Success – Electrical Helper - Skills for Success – Excavator Operator - Skills for Success – Mastering the Customer Experience - Skills for Success – Skid Steer Operator	- Construction Laborers - Cost Estimators - Electrical Power-Line Installers and Repairers - Electricians - Helpers, Electricians - Helpers, Installation, Maintenance, & Repair Workers
02153G1001	Career Mathematics		
17047G1001	Career Pathway Project in Architecture and Construction		
17017G1000	CTE Lab in Architecture and Construction		
17102G1000	Electrical Fundamentals		
17102G1001	Electrical Technology		
17998G1050	Internship in Architecture and Construction		

Career Pathway Program	HVACR and Mechanical Systems Program		
	(Must teach three courses from this program list within two years)		
	In the HVACR and Mechanical Systems Program, students explore heating, ventilation, air conditioning, and refrigeration systems. Training covers the basics of installation, maintenance, and troubleshooting, along with system diagnostics and environmental controls. Students are prepared to enter a rapidly growing industry with a strong demand for skilled technicians.		
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
17002G1002	Architecture and Construction Foundations	- Air Conditioning, Heating, and Refrigeration Institute (AHRI) ICE – Residential Core - Alabama Certified Employee (ACE) - Construction and Skilled Trade Assessment (CAST) - EPA Card - NCCER Core (Module 6 is an elective and not required for CRI) - NCCER HVAC Level 1 - OSHA 10 + AHA Heartsaver CPR AED (Both areas are required) - OSHA 30 - Skills for Success – Asphalt Roller Operator - Skills for Success – Bulldozer Operator - Skills for Success – Carpentry Helper - Skills for Success – Electrical Helper - Skills for Success – Excavator Operator - Skills for Success – Mastering the Customer Experience - Skills for Success – Skid Steer Operator	- Construction Laborers - Cost Estimators - Heating, Air Conditioning, & Refrigeration Mechanics & Installers - Helpers, Installation, Maintenance, & Repair Workers - Sheet Metal Workers
02153G1001	Career Mathematics		
17047G1001	Career Pathway Project in Architecture and Construction		
17017G1000	CTE Lab in Architecture and Construction		
17057G1070	HVACR and Mechanical Systems at ACT		
17055G1001	HVAC Installation and Operation		
17998G1050	Internship in Architecture and Construction		

Career Pathway Program	Industrial Metal and Fabrication Program (Must teach three courses from this program list within two years)		
	The Industrial Metal and Fabrication Program equips students with the skills to work with metals through welding, cutting, forming, and assembly techniques. Emphasizing safety and precision, the program prepares students for careers in manufacturing, structural fabrication, and industrial maintenance.		
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
17002G1002	Architecture and Construction Foundations	- Alabama Certified Employee (ACE) - AWS Certifications (each area will count as a CRI): - FCAW 3-G Uphill Progression D1.1 - GMAW 3-G Uphill Progression D1.1 - GTAW 3-G Uphill Progression (Aluminum) D1.2 - GTAW 3-G Uphill Progression (Steel) - SMAW 3-G Uphill Progression D1.1 - Construction and Skilled Trade Assessment (CAST) - NCCER Core (Module 6 is an elective and not required) - NCCER Welding Level 1 - OSHA 10 + AHA Heartsaver CPR AED (Both areas are required) - OSHA 30 - Skills for Success – Asphalt Roller Operator - Skills for Success – Bulldozer Operator - Skills for Success – Excavator Operator - Skills for Success – Skid Steer Operator	- Construction Laborers - Cost Estimators
02153G1001	Career Mathematics		
17047G1001	Career Pathway Project in Architecture and Construction		
17017G1000	CTE Lab in Architecture and Construction		
17998G1050	Internship in Architecture and Construction		
17013G1075	Industrial Metal Fabrication at ACT		
13207G1002	Welding I: SMAW II		

2026 – 2027 Subject and Personnel Codes

Academy of Craft Training Program Courses	
Course Number	Course Name
17002G1002	Architecture and Construction Foundations
02153G1001	Career Mathematics
17047G1001	Career Pathway Project in Architecture and Construction
17013G1070	Commercial Construction at ACT
17002G1011	Construction Foundations Layout
17017G1000	CTE Lab in Architecture and Construction
17102G1000	Electrical Fundamentals
17102G1001	Electrical Technology
17057G1070	HVACR and Mechanical Systems at ACT
17055G1001	HVAC Installation and Operation
17013G1075	Industrial Metal Fabrication at ACT
17998G1050	Internship in Architecture and Construction
13207G1002	Welding: SMAW II

General Note: Course descriptions and content standards for most courses are located on the Alabama Department of Education website at: [Alabama Achieves | Career and Technical Education | Courses of Study](#).

College and Career Readiness Indicator Course Matrix

Program Name	Commercial Construction	Electrical	HVACR and Mechanical Systems	Industrial Metal and Fabrication
Foundation Course(s)	Architecture and Construction Foundations	Architecture and Construction Foundations	Architecture and Construction Foundations	Architecture and Construction Foundations
Concentrator Course(s)	Commercial Construction at ACT Construction Foundations Layout	Electrical Fundamentals Electrical Technology	HVACR and Mechanical Systems at ACT HVAC Installation and Operation	Industrial Metal Fabrication at ACT Welding: SMAW II
Capstone Course(s)	Career Pathway Project – Architecture and Construction CTE Lab in Architecture and Construction Internship in Architecture and Construction	Career Pathway Project – Architecture and Construction CTE Lab in Architecture and Construction Internship in Architecture and Construction	Career Pathway Project – Architecture and Construction CTE Lab in Architecture and Construction Internship in Architecture and Construction	Career Pathway Project – Architecture and Construction CTE Lab in Architecture and Construction Internship in Architecture and Construction

To meet the CCR Indicator as a CTE completer, a student must earn three (3.0) credits with the grade of a “C” or higher in CTE courses that are part of an approved CTE program of study. Additional requirements are outlined in [FY25-2048 Updates on Career and Technical Education Completer Status](#)

This matrix is intended for general guidance on the CCR completer status and is subject to change. For all CTE programming information, please refer to the CTE Cluster specific Program Guide. It contains a list of approved CTE programs, valid course numbers, approved Career Readiness Indicators (CRIs), and in demand occupations.

***Courses are listed in alphabetical order, not in sequential order.**