



THE COLLEGE SYSTEM
of TENNESSEE

1 Bridgestone Park, Third Floor
Nashville, Tennessee 37214
615-366-4400 OFFICE 615-366-3922 FAX

tbr.edu

EVIDENCE BASED PROGRAMMING PROJECT

TN College of Applied Technology (TCAT) PROGRAM OPTIONS:

The following programs are available or have previously been offered in the carceral setting. Other programs may be available upon request.

- Building and Electrical Technology: The coursework of the Building and Electrical Technology Program is structured around the NCCER curriculum. The mission of this program is to help prepare students for a career in the Electrical or the Plumbing field. The program is self-paced and formatted so the student will have a choice of pathways. Students will spend extensive training in a hands-on environment. National Electric Code applications and safety are strongly emphasized. Actual wiring and plumbing simulations will be used to ensure realistic training experiences utilizing electrical or plumbing components.
- Building Construction Technology: The Building Construction Technology Program provides the student with the fundamentals of carpentry, residential electrical wiring, residential plumbing, and block and brick laying. Instruction methods include classroom lecture, audio-visuals and extensive live work projects on actual construction projects.
- Computer Information Technology: The Computer Information Technology program is designed to provide students with first-hand knowledge of the software, hardware, and operations of personal computers used in business and industry. Many aspects of the personal computer including how it works, how data is processed, and how to apply the functions to solutions on the job are explored in the Computer Information Technology Program.
- Cosmetology: The Cosmetology program is designed to help the student master all the skills necessary for passing the State Board Examination, selecting the phase or phases of Cosmetology in which to specialize, and entering employment. The program also provides for the upgrading and updating of employed workers. Classroom instruction and practical learning experiences are interwoven into a variety of beauty treatments, including the care and beautification of the hair, complexion, and hands. The course of study includes hands-on and classroom instruction in giving shampoos, rinses, scalp treatments, hair styling, setting, cutting, tinting, decolorizing, chemical texturing services, special effects haircoloring, facials, manicures, hand and arm massages, bacteriology, anatomy, hygiene, sanitation, and salon management. Safety and customer relations are also emphasized throughout the program.
- Culinary Arts: The Culinary Arts program is designed to train students to become Food Service Professionals. The class will cover topics such as Proper Sanitation practices,

customer service basics, food handling, Menu preparation, and food production techniques. This class will prepare the student to earn a ServSafe Certification which is required in the food industry. After successful completion of this program, the student will be prepared to handle any facet of the Food Industry from serving, cooking, and managing the business.

- Diesel Powered Equipment Technology: The Diesel Powered Equipment Technology program provides practical experience in the repair and maintenance of engines, fuel systems, electrical systems, clutch and transmissions, hydraulics, drivelines and axles, frame and suspension systems, steering systems, brake systems, and heating, ventilation, and air conditioning systems. Students receive instruction in diagnosing trouble, system analysis, disassembly, replacing defective parts, reassembling, etc. The program mission is to provide technical instruction and skill development to enable students to enter employment in truck, construction, agricultural equipment, and other related fields as technicians. By working on actual diesel powered equipment, students are well prepared to enter the workforce after graduation.
- Farming Operations Technology: This program will provide students with skills and knowledge needed for today's farming operations which include, but not limited to, row crops, animal agriculture, and precision agriculture. Students may earn certificates by completing courses that offers exposure to principles in agriculture, livestock equipment, and precision agriculture. Other courses for credentials will present welding, farm based electricity, and shop principles as well as agriculture finance. Students will be presented material for understanding farm machinery maintenance, soil and plant management, crop and livestock marketing, and herd management. Precision agriculture is the future of the industry and will be offered as an individual diploma.
- Industrial Electricity: Industrial Electricity
- Manufacturing Technology: This program will focus on the needs of a growing West Tennessee in areas of production and maintenance. As the need for advance maintenance employees grow, there will be a demand for advance machine operators. This program will address both areas, with students trained in safety, advance quality control and measurements, employability skills and craftsmanship.
- Truck Driving (CDL): The Truck Driving Program prepares individuals to build skills in safety practices, operation, vehicle maintenance, and non-vehicle activities associated with truck driving. Instruction includes the operation of vehicles on the interstate, on two-lane highways, in the city, backing and maneuvering. Also included are recordkeeping and performing pre-trip/post-trip inspections and defensive driving.
- Welding: Students will learn to perform entry level proficiency in shielded metal arc, gas metal arc, flux core arc and gas tungsten arc welding. Materials to be joined include carbon steel and stainless steel. The students will be using sheet, plate and pipe, incorporating both fillet and groove weldments in the 1F-2F and 1G-4G positions for

sheet/plate, as well as both 2G & 6G positions for pipe. NCCER qualification/certification paths are available for those that chose to pursue those options.

LIVE WORK POLICIES:

Please note the following policy and guidelines regarding instructional projects at the TN Colleges of Applied Technology, referred to as “live work”.

<https://policies.tbr.edu/guidelines/instructional-projects-colleges-applied-technology>

We may be able to complete these projects under specific circumstances and adhering to the appropriate state oversight and permitting as required. Speak to the college President for your associated CEI program to begin discussion.