



ABOUT EARLY TECHNICAL COLLEGE

at Tennessee College of Applied Technology

Early Technical College at TCAT is a hybrid CMCSS high school that specializes in the technical training associated with high skill, high wage, and in-demand jobs. It provides a unique, hands-on learning experience that allows students a no-cost opportunity to work towards specialized industry certificates while also earning the necessary high school credits for graduation. Rigorous academic coursework is completed through an online platform led by Tennessee-certified instructors. Students participate in labs facilitated by TCAT instructors and internships aligned to classroom experiences in order to demonstrate competencies and earn industry recognized certificates in their chosen programs of study. Early Technical College is open to 11th and 12th grade students from high schools across CMCSS. Candidates must meet admission requirements to qualify.

ADMISSION REQUIREMENTS

- CMCSS student entering 11th or 12th grade
- 2.0 GPA or higher
- Maturity for a college environment
- Good attendance and behavior
- On track to graduate

NON-TRADITIONAL SCHEDULE

- Monday-Friday 10:30 AM 5:30 PM
- Optional morning hours for work-based learning experiences
- Optional summer school hours between junior and senior year to earn additional TCAT hours
- Transportation available as needed

WORK-BASED LEARNING OPPORTUNITIES

JOB SHADOWING

- Open to first-year students
- One day per week
- Must maintain ETC and TCAT grade, behavior, attendance requirements
- Begins second semester

INTERNSHIPS

- Open to second-year students
- Three days per week (T, W, Th)
- Must maintain ETC and TCAT grade, behavior, and attendance requirements
- Begins 2nd nine weeks of the school year

INDUSTRIAL ELECTRICAL MAINTENANCE/MECHATRONICS

The Industrial Electrical Maintenance/Mechatronics (IEMM) pathway includes classroom and hands-on experiences in electronics, electrical, pneumatics, hydraulics, motor controls, programmable controllers, robotics, machine shop, and related math. Students completing this program are prepared to perform in a variety of entry level positions in typical industrial environments. Job duties could include the repair, installation, adjustment or maintenance of industrial production and processing machinery or refinery and pipeline distribution systems.

High school students who enter IEMM as juniors will complete at least 2 trimesters of the 5 needed to earn a TCAT diploma. Additional hours can be awarded to students who choose to attend classes during the summer between their junior and senior year of high school.

YEAR ONE

Electrician Repair Certificate (432h)

Blueprint Reading for IEM Course Orientation & Safety Developing Troubleshooting Skills Geometric Dimensioning & Tolerancing Industrial Safety & Health Intro to Basic Electronics Job Preparation OSHA-10 Soldering & Circuit Repair Technology Foundations Worker Characteristics

YEAR TWO

Maintenance Apprentice Certificate (864h)

Fluid Power Heating & Air Conditioning Mechanical Maintenance Welding Fundamentals Worker Characteristics



PHARMACY TECHNOLOGY

The Pharmacy Technology pathway provides both the technical instruction and skill development needed for students to become gainfully employed as pharmacy technicians in retail pharmacies, long-term care facilities, hospitals, or other healthcare settings. Pharmacy technicians prepare medications under the direction of a pharmacist and may measure, mix, count, label, and record amounts of medication dosages according to prescription orders.

High school students who enter Pharmacy Technology as juniors will complete at least 2 trimesters of the 3 needed to earn a TCAT diploma. Additional hours can be awarded to students who choose to attend classes during the summer between their junior and senior year of high school, which may result in the awarding of both a high school and TCAT diploma simultaneously.

TCAT COURSEWORK

Anatomy & Physiology Job Preparation Key Boarding Law & Ethics Medical Terminology Pharmacology Pharmacy Math Third-Party Reimbursement Top Drugs



CRIMINAL JUSTICE: CORRECTIONAL SERVICES



Correctional Services pathway will equip students with the knowledge and skills needed to become a jailer or guard within a correctional facility. Students will garner a better understanding of inmate processing, the ways in which order is maintained within a jail, and how to invoke disciplinary measures when necessary. In addition, students will learn the standards and expectations required to perform cell searches for drugs and other contraband, inspect quarters for cleanliness, and stand guard during exercise periods. Coursework will give students time to grapple with topics such as mental health, use of force, ethical and legal issues, and personal development.

High school students who enter Criminal Justice: Correctional Services as juniors will complete at least 2 trimesters of the 3 needed to earn a TCAT diploma. Additional hours can be awarded to students who choose to attend classes during the summer between their junior and senior year of high school, which may result in the awarding of both a high school and TCAT diploma simultaneously.

YEAR ONE

Correctional Officer Apprentice (432h)

Ethics and Legal Issues Defense Tactics Mental Health First Aid Emergency Readiness Patrol Procedures

YEAR TWO

Master Correctional Officer (864h)

Investigations Human Relations Career Training Criminal Justice System



HEATING, AIR CONDITIONING, AND REFRIGERATION

The Heating, Air Conditioning, and Refrigeration pathway introduces students to the theory, application, and service of air conditioning and refrigeration equipment. Instruction includes: print reading, basic electronics, pneumatics, math, programmable controllers, refrigerant containment certification (EPA certification), and heat pump technology.

Upon completion of this pathway, students will be prepared to enter jobs as service technicians in a variety of domestic, industrial, and commercial settings. Service technicians typically install or repair heating, central air conditioning, HVAC, or refrigeration systems.

High school students who enter this program as juniors will complete at least two trimesters of the four needed to earn a TCAT diploma. Additional hours can be awarded to students who choose to attend classes during the summer between their junior and senior year of high school.

YEAR ONE

HVAC Mechanic Assistant Certificate (432h)

Electricity & Controls I Employment Readiness Exam Green Awareness Insulation OSHA - 10 Refrigeration Foundations Shop Safety Technology Foundations Tools, Equipment, & Shop Practices Worker Characteristics

YEAR TWO

Domestic Unit Repair Certificate (864h)

Basic Automatic Controls Domestic Appliances Employment Readiness Exam EPA EPA Section 608 Certificate Intro to System Service Motors Worker Characteristics

DIESEL POWERED EQUIPMENT TECHNOLOGY

The Diesel Powered Equipment Technology pathway provides practical experience in the repair and maintenance of diesel powered equipment. Students receive instruction in troubleshooting, engine analysis, disassembling engines, replacing defective parts, reassembling, etc.

Upon completion of this pathway, students will be prepared to enter into employment as technicians in truck, construction, agricultural equipment, and other related fields. Typical job duties in this field can include the diagnosing, adjustment, repair and/ or overhaul of mobile mechanical, hydraulic, and pneumatic equipment such as cranes, bulldozers, graders, and conveyors used in construction, logging, and mining.

High school students who enter Diesel Powered Equipment Technology as juniors will complete at least 2 trimesters of the 5 needed to earn a TCAT diploma. Additional hours can be awarded to students who choose to attend classes during the summer between their junior and senior year of high school.

YEAR ONE

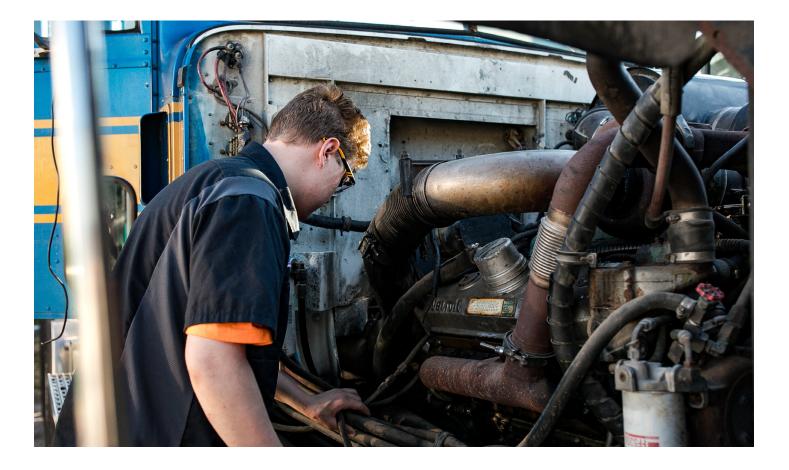
Preventative Maintenance Service Technician Certificate (432h)

Basic Diesel Theory General Shop Skills Orientation Preventative Maintenance Safety Technology Foundations Worker Characteristics

YEAR TWO

Diesel Engine Assembler Certificate (864h)

Diesel Engine Mechanical Worker Characteristics





OUR MISSION

The mission of the Early Technical College is to equip students with the academic and technical skills necessary for a successful transition into the global workforce.

OUR VISION

The vision of Early Technical College is to empower all Early Technical College students to confidently and successfully enter into post-secondary and career opportunities and become positive, contributing members of society.



(EARLY TECHNICAL COLLEGE at Tennessee College of Applied Technology



Learn how TCAT students succeed through internships with local employers.

For more information or to apply, visit etc.cmcss.net or call 931.572.1695.

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