

Career and Technical Education Center

The mission of the North East ISD (NEISD) Career and Technical Education Center (CTEC) is to provide all students the opportunity to become college and career ready by creating instructional settings that replicate real-world experiences, knowledge, and skills. Students may participate in coursework at any one of the three academies located at CTEC: the Construction Technology Academy, the Medical Professions Academy or the Transportation Technology Academy.

CTEC is open to any student enrolled in a NEISD high school. Students remain enrolled at their home high school and travel to CTEC to participate in coursework at our facility. Additionally, shuttle service to CTEC is provided for students by the NEISD Transportation department.

[CTEC WEBSITE](#)



CONSTRUCTION TECHNOLOGY ACADEMY

The CTEC Construction Technology Academy offers programs of study in Construction Science/Carpentry; Electrical Systems; Plumbing; Heating, Ventilation and Air Conditioning (HVAC); and Welding. Students may participate in coursework for as few as one or as many as four years. Students in entry level courses will all study and may earn [National Center for Construction Education & Research CORE, Construction Essentials certification](#). Additional certifications and training options are available depending on the number of years a student participates.

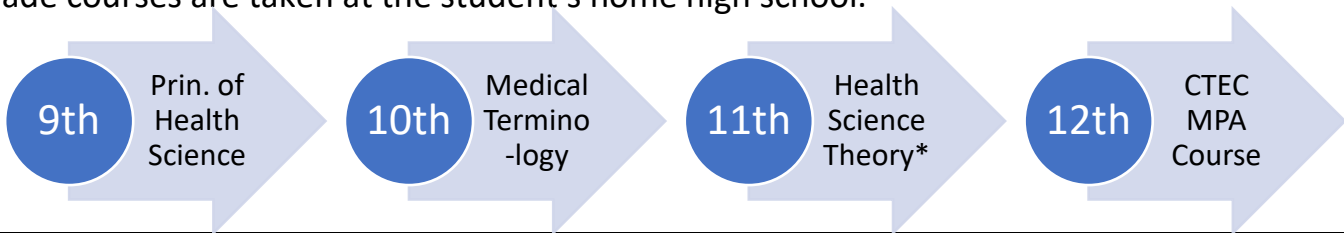
Courses are open to students in grades 9 – 12.

PROGRAM	DESCRIPTION	VIDEO LINK
Construction Science/ Carpentry	This program prepares students for entry-level employment in the construction field or for a post-secondary degree in construction management, architecture, or engineering. Students gain knowledge and skills in safety, tool usage, construction mathematics, building materials, framing, reading blueprints, and the construction process.	Click HERE
Electrical Systems	This program prepares students for entry-level employment in the electrical field or for a post-secondary degree in construction. Students gain knowledge and skills in safety, tool usage, residential wiring, commercial wiring, and motor controls.	Click HERE
Heating, Ventilation, and Air Conditioning (HVAC)	This program prepares students for entry-level employment in the HVAC field or for a post-secondary degree in construction. Students will acquire knowledge and skills in safety, principles of HVAC theory, use of tools, codes, installation of HVAC and refrigeration equipment, heat pumps, troubleshooting techniques, various duct systems, and maintenance practices.	Click HERE
Plumbing	This program prepares students for entry-level employment in the plumbing field or for a post-secondary degree in construction. Students will learn to identify and use power tools, how to apply basic plumbing mathematics and plumbing drawing; and how to identify, fit, and use plastic, copper, cast iron, carbon steel and corrugated stainless pipe.	Click HERE
Welding	This program prepares students for entry-level employment in the welding field. Students gain knowledge and skills in safety, tool usage, Gas Metal Arc Welding, Stick Metal Arc Welding, oxyfuel cutting and welding, and more.	Click HERE



MEDICAL PROFESSIONS ACADEMY

The CTEC Medical Professions Academy offers capstone certification programs in Medical Assisting, Nurse Aide/Assistant, Emergency Medical Technician, Pharmacy Technician, and Dental Assisting. To be considered for automatic admission students should complete prerequisite courses (Biology and Health Science Theory*). The pathway below is recommended for all students who wish to pursue a MPA capstone program. The 9th – 11th grade courses are taken at the student’s home high school.



PROGRAM	DESCRIPTION	VIDEO LINK
Certified Clinical Medical Assistant Grade 12 only	This program prepares students for entry-level employment in a medical health facility. Students study medical law and ethics, terminology, anatomy and physiology, human relations, use and care of diagnostic equipment, venipuncture, injections, pharmacology, universal precautions, vital signs, CPR/first aid, EKG, urinalysis, hematology, microbiology, basic computer operations, front office medical procedures, insurance forms, electronic medical records, and medical billing. Certification: CCMA	Click HERE
Certified Nurse Aide/Assistant (CNA) Grade 11 or 12	This course prepares students for the Texas Department of Health and Human Services Certified Nurse Aide exam. Students learn 23 state-mandated skills, including but not limited to: patient care, transporting, hygiene, and positioning. Students must complete lecture and clinical hours to qualify for certification examination. Clinical rotation hours are typically completed in an assisted living facility and may occur on weekends and/or during spring break. Certification: CNA	Click HERE
Emergency Medical Technician Grade 12 only	The Emergency Medical Technician (EMT)-Basic course teaches seniors the skills and knowledge necessary to pass the National Registry EMT Basic test. The student must pass a final examination with an 80% or better, complete all clinical rotation hours on a working ambulance, and complete all clinical rotation hours in a hospital emergency room to be eligible to sit for the National Registry EMT Basic exam. Clinical rotation hours will be held on weekends and/or during spring break. The course is rigorous and follows a very strict schedule to meet regulations. Certification: EMT	Click HERE

PROGRAM	DESCRIPTION	VIDEO LINK
Pharmacy Technician Grade 12 only	This course is designed to prepare students for the ExCPT exam. This certification exam is one of two tests recognized by the Texas State Board of Pharmacy. Students learn to receive prescription requests from patients and doctors' offices, accurately measure medication amounts, package and label prescriptions, establish and maintain patient records, accept payment for prescriptions and process insurance claims, and manage inventory. Certification: ExCPT	Click HERE
Registered Dental Assistant Grade 11 or 12	This course teaches the knowledge and skills necessary to pass the Texas Registered Dental Assisting Exam. The course will include a wide range of dental procedures, recognition of equipment, tools, and terminology. Students will be expected to work together and practice skills to prepare them for a career in the dental field, including: looking in each other's mouth, taking impressions, setting up treatment procedures, passing instruments, sterilization, and teaching others how to brush and floss. Certification: RDA	Click HERE



TRANSPORTATION TECHNOLOGY ACADEMY

The CTEC Transportation Technology Academy offers programs of study in Automotive Technology and Diesel Equipment Technology. Students may participate in coursework for as few as one or as many as four years. Students in entry level courses will all study and may earn the [Automotive Service Excellence \(ASE\) Refrigerant and Recovery Recycling certification](#). Additional certifications and training options are available depending on the number of years a student participates.

Courses are open to students in grades 9 – 12.

PROGRAM	DESCRIPTION	VIDEO LINK
Automotive Technology	This program prepares students for entry-level employment in the automotive service industry. Students gain the knowledge of the basic automotive systems and the theory and principles of the components that make up each system. Additionally, students will gain knowledge and skills in safety, repair, maintenance, and servicing of vehicle systems.	Click HERE .
Diesel Equipment Technology	This program prepares students for entry-level positions in the diesel service industry. Students gain the knowledge of the function, diagnosis, and service of diesel equipment systems. Additionally, students will gain knowledge and skills in safety, repair, maintenance, and servicing of vehicle systems.	Click HERE

STUDENTS MAY NOT BEING WEARING MASKS IN ALL IMAGES AND CLIPS IN THE PROGRAM VIDEOS. MANY IMAGES AND CLIPS ARE FROM PREVIOUS SCHOOL YEARS WHICH DEPICT PAST, AND HOPEFULLY FUTURE, PARTICIPATION OPTIONS FOR CTEC STUDENTS.