



## **Wyoming County Career and Technical Center**

### **Program Descriptions**

All programs at the Career and Technical prepare students to enter the workforce upon completion of a program or readies them to continue their education. Through EDGE and individual articulation agreements with various post-secondary institutions, students can exit the Career Center with as many as 28 college credits at no cost. All programs have national credentials and certifications, which have additional college credits attached. Salary levels for students completing programs at the Career Center are influenced by level and degree of education and certification. Internships are available to qualifying students.

Each Program has an entrepreneurial component to their skill sets which assists students in becoming the owner/operator of a small business. Along with the technical skills taught and acquired in each program, students are required to successfully complete an array of academic skills sets related to their field of study.

### **Automotive Technology**

The Automotive Technology course of study will educate students in the production, operation, service and repair of automobiles, as well as knowledge of the automobile industry as a whole. Students completing this program will exit with skills necessary to enter the work force or ready to pursue a 2 or 4 year degree. Students who complete the MLR & AST Student Certification can earn up to 24 EDGE College Credit toward an AAS Degree and Master Automotive Service Technician Certification.

### **Carpentry**

This course of study is based on the construction of residential and light commercial structures, including a modular home. The Carpentry program is NCCER certified and it is a nationally recognized credential. Students completing the program will have the skill to enter the work force immediately after graduation or have the opportunity to earn up to 28 college hours toward a 2 or 4 year degree. Those completing the Carpentry program will be eligible to enter the third year of a four year apprenticeship program.

### **Hairstyling, Nail Technology, Aesthetics (Cosmetology)**

Cosmetology is now divided into three specialty areas of study and practice of beauty culture. Students will learn a variety of services related to the care of hair, skin and nails, as well as specific skills in styling, shaping, conditioning, coloring, permanent waving, facials and manicures. Student may be licensed in each of the three specialties or may choose to take the State of West Virginia Board of Barbers and Cosmetologist which requires 1800 clock hours in the required curriculum prior to the state examination.

### **Diesel Equipment Technology**

Areas covered in the Diesel Equipment Technology course of study will educate students in the operation of diesel engines and the complete truck driving train. They will learn how to troubleshoot and repair all systems related to the diesel engine and the truck. Those exiting the program will obtain competence in servicing and maintenance of heavy duty diesel operated trucks and equipment. Students have the opportunity to receive multiple certifications and are equipped to enter the work force or continue their education.

### **Drafting/CADD Technology**

Everything in the world that is built or put together has to begin from a design. From paper clips to skyscrapers, from automobiles to computers, all things begin life as a sketch, drawing or blueprint. The Drafting/CADD course of study will prepare students in the areas of architecture, mechanical, civil and structural drafting. New technology in this field is that of 3D modeling and printing. This program has all of the up to date equipment that you would find in any business, anywhere. Completion of this program will earn a student from 28 to 36 college credits at no cost, depending upon the post-secondary institution, or entry into the work force.

### **EKG/Phlebotomy**

Components of this course of study include an introduction into the health care delivery system, legal responsibilities, infection control and safety, communication, quality assurance as well as theory and procedures. Students completing the course of study will exit with entry level responsibilities in the areas of EKG Technician and/or Phlebotomist.

### **Electrical Technician**

This program of study prepares students for a career in Electrical Technology, with a strong emphasis on safety. Students enrolled, participate in the construction of the school's modular house as well as other live work experiences. Those enrolled, have the opportunity to earn up to 28 college hours in pursuit of a 2 or 4 year degree. The Journeyman Electrician License is available to those students completing the 1080 hours of instruction, to include the 4 Core and 4 Elective courses.

### **Electronic Technician**

Students entering the field of electronic technology will be on the forefront of developing trends. Those enrolled in this course of study will diagnose, adjust and repair electronic equipment such as computers, televisions, and DVD players as well as sonar, radar, industrial and medical measuring, and engineering and control devices. This is a one year program and is often taken in conjunction with Robotics courses, making the student a dual completer. Students are eligible to enter the Toyota Advanced Manufacturing Technician Program after completing this program.

## **Coding, App and Game Design**

This course of study covers Web, Console, Mobile and Windows programming. Students will be prepared to pass the two certification exams offered at the Center through the Certiport exam systems. Students will create web based simulations and games using Adobe Flash and create Windows and Xbox 360 games using C# and XNA. This program offers the 4 core Courses and can be completed in one year.

## **Pro Start Restaurant Management**

The food service industry is the largest and fastest growing in America, employing 12.5 million people, making this industry the nation's largest employer outside of the government. Pro Start is a 2 year course of study that allows 11<sup>th</sup> and 12<sup>th</sup> grade students to learn the skills, knowledge, and attitudes necessary for success in restaurant management and culinary arts careers. This program provides instruction in 25 subject areas ranging from basic food prep, accounting, and cost control to sanitation and work place safety. Student successfully completing the program will be able to enter the work force or continue their education in pursuit of a 2 or 4 year degree.

## **Health Science Education**

This program of study is designed to provide students an opportunity to acquire basic knowledge of health care. Students may choose to attend the concepts, fundamentals and terminology courses as a foundation for the professional pathway, or they may opt for the clinical experiences in addition to the other courses to prepare them for the CNA component of the program. A new option for students is to attend the EKG and Phlebotomy courses only for that particular certification. Health Science Education has expanded from a one to a two year program, allowing more opportunities for students to fulfill their career choices.

## **Industrial Equipment Maintenance**

In a progressive and rapidly changing world of industry and technology, there is a great demand for knowledgeable, multi-skilled maintenance technicians. Employers seek professional technicians who can install, maintain and repair sophisticated equipment and systems, as well as envision and create more efficient and reliable systems. The Industrial Equipment Maintenance Program is designed to prepare students for careers in industry as technicians, engineers and managers. This program prepares students planning a career as an electrical/hydraulics systems maintenance technician, and students planning to pursue a two or four year degree in areas of electrical, mechanical or industrial engineering.

## **Certified Internet Webmaster**

The Certified Internet Webmaster (CIW) foundation series of courses prepares student to their CIW Foundation certification. This certification is recognized throughout the industry as validating essential Internet skills for the workplace and proved the individual has evolved from being an Internet consumer to an Internet producer, capable of producing real-world Internet applications. Once certified, these students are ready to pursue specialties Web design, e-commerce, JavaScript, databases and other related fields.

## **Plumbing**

This program of study introduces students to the knowledge base and technical skills related to Basic Plumbing. Areas of study include how water moves throughout a plumbing system, introduction to old, current and future technologies, and various material used in new construction and repair of older systems and the use of plumbing codes. Students successfully completing the Plumbing Program will be able to enter the workforce in a variety of career choices. Areas if employment include residential plumbing for new construction, repair of old systems, and becoming an independent contractor. Students will also be certified to work in light commercial buildings and as well as heavy industrial construction such as Pipefitters and Steamfitters. This program certifies under the NCCER curriculum which is recognized nationally.

## **Welding**

Welding is used in all forms of industry and at all levels. Skilled welders vary from the entry level fabricator to the experts welding pipe in nuclear plants. Students enrolled in this course of study use up-to-date, industry standard welding processes and live work experiences to develop individual and work readiness skills. Those successfully completing the Welding Program exit with skills and knowledge necessary to enter the work force. Students interested in continuing their education have the opportunity to earn up to 28 college hours toward a 2 or 4 year degree. There are also opportunities to earn advanced placement into post-secondary technical schools. Welding uses NCCER curriculum and the certifications are recognized nationally.

## **Robotics**

Robotics is a one year program at the Career Center. Many students take the Electronics Program before they enroll in Robotics, it is recommended, but not required. This program consists of 4 core courses which are the foundation courses for either a technician or engineer. Technicians generally participate in apprenticeship programs that provide on the job training along with classroom instruction. Aspiring engineers

often move on to degreed programs. There are several specialties to choose from and these include: machine automation, medical robots, cybernetics, quantum mechanical robotics and other areas that utilize robotic systems.

### **Advanced Manufacturing**

The Manufacturing Design and Automation course is a combination of the many technical disciplines used in modern manufacturing and production industries. From concept development to final production, this comprehensive program of study examines the design, prototyping and fabrication of engineered products and emphasizes modern developments in system modeling, analysis and automatic control.

Automated systems and machinery are the backbone of modern manufacturing and production. Automated manufacturing systems consist of electromechanical, electropneumatic and electrohydraulic equipment and machinery controlled by microprocessor and computer based systems. Automated systems also utilize computer software for data acquisition and analysis, control system troubleshooting and process adjustments.

### **Licensed Practical Nursing**

Practical Nursing is an integral part of the total health program. Its purpose is to provide learning opportunities and training to individuals interested in becoming competent members of an honorable profession.

The school of Practical Nursing is a twelve month course of study (1400 clock hours) which prepares the student to take the West Virginia Board of Examiners Licensing Examination to become a Licensed Practical Nurse. During the twelve months, the student will gain a basic knowledge of Nutrition, Pharmacology, Principles and Fundamentals of Nursing, Anatomy, Obstetrics, Pediatrics, Medical Surgical Nursing, Psychiatric Nursing and personal career relationships.