

State Fair Career and Technology Center



Career Connections

Connecting You to Careers and College

www.sfccmo.edu

State Fair
Community College



About Us

The State Fair Career and Technology Center (CTC) offers free technical training to juniors and seniors from 10 area school districts. Located on State Fair Community College's Sedalia campus, it is one of four career centers in Missouri affiliated with a community college.

Choose the CTC to jump start your path to high-demand, high-skill and high-wage careers or continue your learning by earning a college degree. You will explore fields that interest you, learn skills that can help pay for college and even earn college credits that apply toward certificates or degrees at SFCC or other two- and four-year colleges or universities.

Close instructor contact and hands-on experience connects you to entry-level employment, advanced job training, entry into college programs, entry into apprenticeship programs, or entry into military training.

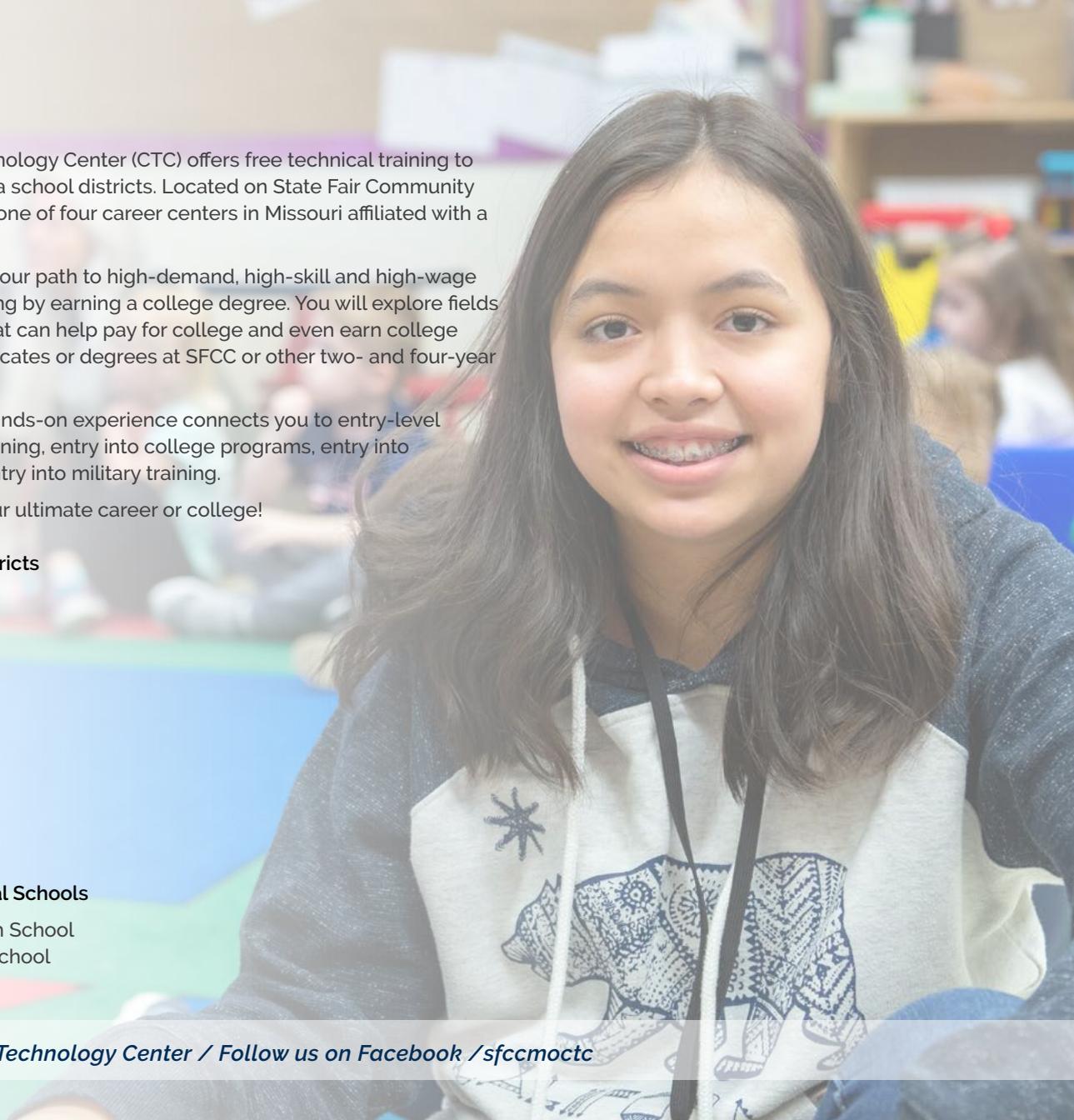
Let the CTC connect you to your ultimate career or college!

Sending School Districts

Cole Camp R-I
Green Ridge R-VIII
LaMonte R-IV
Lincoln R-II
Northwest R-V
Otterville R-VI
Sedalia #200
Smithton R-VI
Tipton R-VI
Warsaw R-IX

Private and Parochial Schools

Applewood Christian School
Sacred Heart High School



Why the CTC?

Today's workforce requires you to not only be technically trained but also to have soft skills necessary to succeed in the workplace, such as teamwork, problem solving and a strong work ethic. Depending on your life goals, we prepare you to enter the workforce upon graduation and equip you with the knowledge to continue your education. Additional benefits include:

- › Highly experienced faculty
- › Dual credit
- › Industry-recognized credentials
- › State-of-the-art technology
- › Pre-employment (soft) skills development
- › Internships and apprenticeships
- › Job search counseling and assistance

Our Programs

Check out our great career programs and find the one that's right for you!

- › Automotive Technology
- › Building Trades
- › Criminal Justice
- › Early Childhood Careers
- › Graphic Design
- › Health Occupations
- › Industrial Equipment Maintenance
- › Precision Machining Technology
- › Welding
- › Missouri Options

How to Enroll

Enrollment typically starts in February. If you are interested in attending the CTC, visit with your school counselor to talk about the enrollment process.

Automotive Technology



Is This Your Program?

Do you like working on cars? Are you interested in how things work and enjoy working with your hands? This field is full of opportunities if you're willing to work hard and keep up to date with the latest in the automotive industry. To be successful, you need a technical mindset, math, problem solving and troubleshooting skills, and an understanding of electrical systems.

The Subjects

- › Automotive Shop Safety
- › Computerized Engine Controls
- › Brakes, ABS and Traction Control
- › Emissions Control Systems
- › Battery, Starting, Charging Systems
- › Tires, Wheels and Alignment
- › Automotive Fasteners
- › Lubrication Systems
- › Precision Measuring
- › Automotive Tools
- › Steering and Suspension
- › Fuel and Exhaust Systems
- › Electricity and Electronics
- › Ignition Systems
- › Service Information
- › Advanced Diagnostics

The Scoop

The Automotive Technology program is a two-year Automotive Service Excellence (ASE) certified course of study, providing basic entry-level skills in various automotive service areas or for advanced placement in college automotive technology programs. Completing our ASE-certified program preps you to earn certifications in the following areas: brakes, steering and suspension, engine performance, and electrical.

The Creds

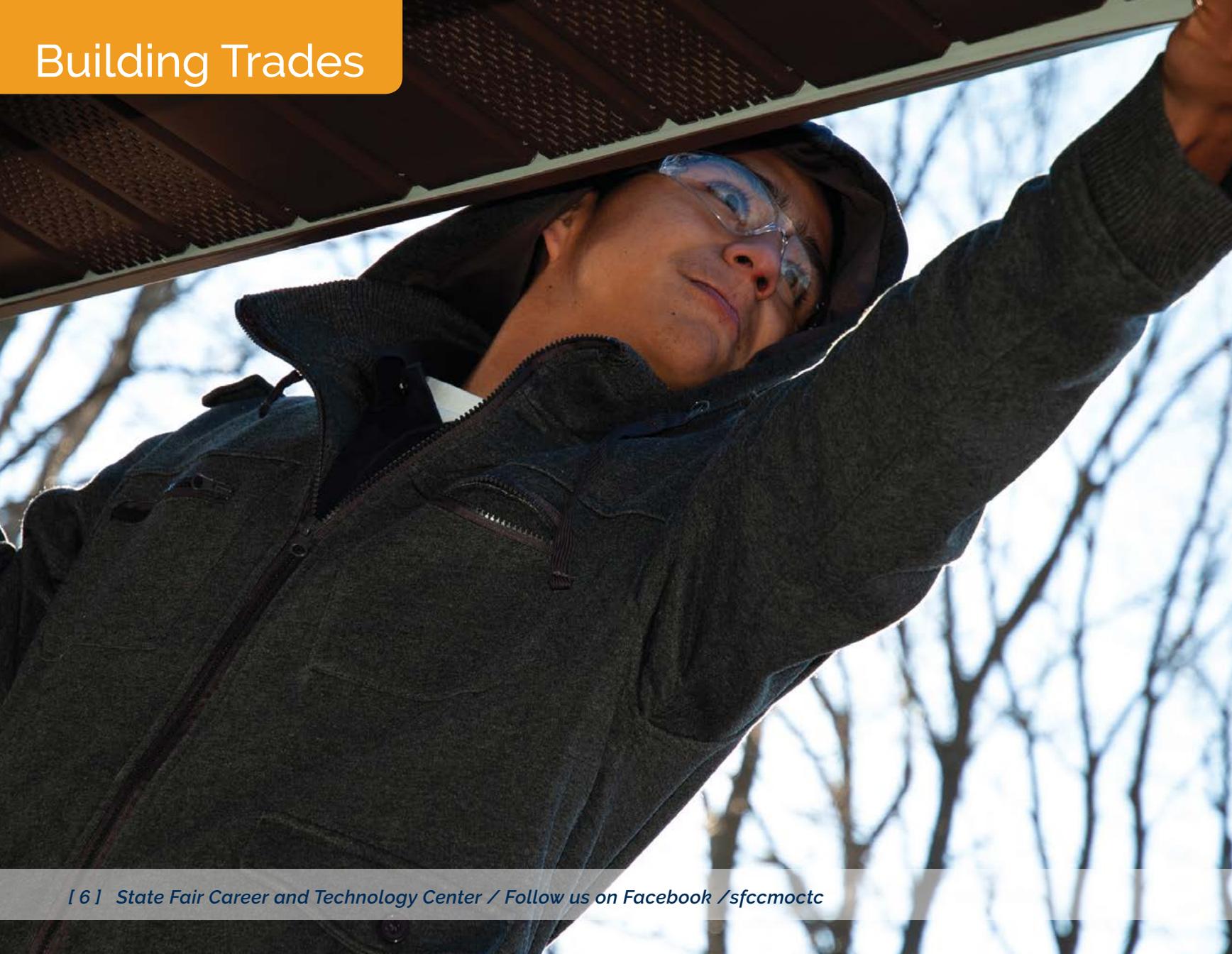
- › ASE-Brakes
- › ASE-Steering and Suspension
- › ASE-Engine Performance
- › ASE-Electrical

The Future

- › Automotive Technician and Management
- › Auto Parts
- › Small Engine Repair
- › Marine and Motorcycle Repair
- › Farm Implement Repair
- › Automotive Service Writer
- › Automobile Sales
- › Factory Maintenance
- › Military

**Industrial &
Engineering
Technology**
Building &
Fixing Path

Building Trades

A construction worker wearing a dark, heavy jacket and safety glasses is working on a roof. The worker is looking upwards and to the right, with their right arm raised. The background shows bare trees against a bright sky. The image is oriented vertically, with the worker's head at the top and their body extending downwards.

Is This Your Program?

Do you like the construction industry? Do you enjoy working with your hands and building projects? Do you want to build homes or buildings? To be successful in this field, you must work hard, tolerate weather conditions, have high math and geometry aptitudes, have great communication and teamwork skills, and be able to solve problems.

The Subjects

- › Building Safety
- › Layout and Measuring Tools
- › Building Codes, Zoning Laws and Building Permits
- › Interpreting Blue Prints
- › Construction Safety
- › Framing
- › Installation of Doors and Windows
- › Roofing
- › Siding
- › Insulation and Sheetrock
- › Painting, Staining and Varnishing
- › Finish and Trim Work

The Scoop

The Building Trades program is a two-year program that prepares you for a variety of jobs in the construction industry. It consists of classroom instruction enhanced by hands-on experience in building a house. Upon completion, you will have gained knowledge and skills for entry-level positions in various construction trades. You also can pursue post-secondary education or certifications in construction management programs.

The Creds

- › OSHA 10-Hour Safety Certificate

The Future

- › Carpenter
- › Roofing
- › General Contracting
- › Project Management
- › Estimating
- › Building Codes Enforcement
- › Various Construction Trades
- › Military

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Criminal Justice



Is This Your Program?

Are you interested in law enforcement? Do you want to serve your community? Do you desire great leadership and communication skills? To be successful in this field, you must have high levels of critical-thinking skills, an understanding of ethics and leadership, be able to communicate clearly, work in teams, and in good physical shape.

The Subjects

- › History of Criminal Justice
- › Code of Ethics
- › United States Legal System
- › Community Policing
- › Crime and Punishment
- › Interview and Interrogation
- › Traffic Stops
- › Technical Report Writing
- › Crime Scenes
- › Critical Issues
- › Introduction to Law Enforcement
- › Telecommunications
- › History of Forensics
- › History of Fingerprinting
- › Health and Safety
- › Roles and Functions of Corrections

The Scoop

The Criminal Justice program is a two-year program that prepares you for entry-level employment in criminal justice fields or advanced placement in post-secondary training or college programs. You will learn about the criminal justice system and law enforcement practices. Not only will you study criminal justice content but also you will develop communication, leadership and community service skills, which are crucial to criminal justice careers.

The Creds

- › CPR Certification
- › Various Local Gov U Certificates
- › Leadership Certification

The Future

- › Law Enforcement Officer
- › Security Guard
- › Probation Officer
- › Dispatcher
- › Game Warden
- › Forensics
- › Paralegal
- › Military
- › Attorney

**Human
Services**

Helping Path

Early Childhood Careers



Is This Your Program?

Do you love working with children? Do you want to be a teacher? Are you interested in helping children develop their physical, cognitive and emotional skills? To be successful in this field, you must have a desire to work with children, a patient and nurturing attitude, strong communication skills, and the ability to work with a team and families.

The Subjects

- › Professionalism in Early Childhood Careers
- › Growth and Development (birth to eight years of age)
- › Special Needs Children
- › Creating a Developmentally Appropriate Learning Environment
- › Leadership Development
- › Employment Skills
- › Parent Involvement
- › Early Childhood Curriculum
- › Child Guidance
- › Nutrition and Menu Planning
- › Encouraging Creativity
- › Enhancing Self-Concepts
- › Relating to Families
- › Communicating Effectively
- › Developing Social Skills
- › Health and Safety

The Scoop

The Early Childhood Careers program is a two-year program that provides you with knowledge and hands-on experience with infants, toddlers, preschoolers, and their parents. You will learn how to plan activities that stimulate a child's cognitive, physical, emotional, and social growth. Also, you will learn to provide a safe, healthy and loving environment that allows children to explore and develop their natural curiosity and imagination. Firsthand experience will be gained in area schools and child care facilities.

The Creds

- › Child Development Associate (CDA) National Certification

The Future

- › Childcare Worker
- › Childcare Provider
- › Nanny
- › Paraprofessional
- › Program Director
- › Parent Educator
- › Social Worker
- › Preschool Teacher
- › Elementary Teacher

**Human
Services**

Helping Path

Graphic Design



Is This Your Program?

Are you creative? Do you like art and appreciate good design? Are you good with computers and technology? To be successful in graphic design, you need an eye for visual creativity and details such as fonts, space, layout and print design. You also need excellent written and verbal communication skills, and the ability to work well with individuals and teams.

The Subjects

- › Design Layout
- › Image Manipulation
- › File Management
- › Web Design
- › Screen Printing
- › Vinyl Printing and Layout
- › Photoshop
- › InDesign
- › Illustrator

The Scoop

The Graphic Design program equips you with technical knowledge and skills in electronic layout design; principles of graphic and web design; digital manipulation; sublimation printing; vinyl design and preparation; and screen printing. Hands-on experiences prepare you for entry-level positions in various graphic design careers or to pursue certificate or degree programs in college.

The Future

- › Advertising Designer
- › Screen Printer
- › Web Designer
- › Sign Making
- › Marketing
- › Graphic Designer
- › Photographer and Editor

**Arts &
Communication**
Creative Path

Health Occupations



Is This Your Program?

Do you have an interest in health care? Do you love helping and taking care of people? To succeed in health occupations careers, you need strong math and science backgrounds and a genuine respect for the dignity and privacy of people with health care issues. You also need to be ethical, a hard worker and willing to serve others.

The Subjects

- › Human Anatomy and Physiology
- › Medical Terminology
- › CPR/First Aid
- › Communication
- › Prevention and Control of Diseases
- › Metric Measurements
- › Microbiology and Medical Asepsis
- › Career Opportunities
- › Charting Procedures
- › Ethical and Legal Standards
- › Issues in Health Care

The Scoop

Health Occupations is a two-year program that prepares you for entry-level employment as a Certified Nurse Aide during your junior year. You will learn basic skills including vital signs, personal care and hygiene, food service, and transfer techniques. You will apply those skills at a health care facility and job shadow health care workers.

Upon successful completion of the first year and meeting required academic milestones, you will be eligible to join the CTC Allied Health Academy and take prerequisite courses for SFCC's Allied Health programs during your senior year. Admission to these programs is competitive, and you will need to complete an application for selection and admission.

The Creds

- › Certified Nurse Assistant (CNA)

The Future

- › Nurse Assistant
- › Nurse
- › Nursing Technician
- › Home Health Aide
- › Medical Doctor
- › Dental Aide
- › Veterinary Aide
- › Dietary Aide
- › Radiological Aide
- › Physical Therapy Aide
- › Military



Health Services
Health Path

Industrial Equipment Maintenance



Is This Your Program?

Do you want to learn the components and impact of electrical and mechanical maintenance? Do you love working with your hands and like solving technical problems? To be successful in these fields, you need strong math and science backgrounds, excellent problem-solving and critical-thinking abilities, and an ability to troubleshoot problems.

The Scoop

The Industrial Equipment Maintenance program prepares you for a wide variety of technical careers related to electrical and industrial professions. You will learn skills for entry-level positions in mechanical and electrical installations, service or maintenance. The program can be applied to certificates, an Associate of Applied Science degree, or qualify you for advanced placement in college programs. You will work on a variety of electrical, mechanical and industrial projects and in labs along with classroom instruction.

The Subjects

- › Electrical and Industrial Safety
- › Electrical Fundamentals
- › Tools of Electrical Trades
- › Career Opportunities
- › Circuit Design and Control
- › Troubleshooting
- › Motor Controls
- › Automation Control
- › Wiring Practices
- › Hydraulics and Pneumatics
- › Blueprints and Schematics
- › Equipment Maintenance

The Creds

- › OSHA 10-Hour Safety Certificate

The Future

- › Electrician
- › Maintenance Technician
- › Equipment Repair
- › Construction Trades
- › Electrical Engineer
- › Automation Specialist
- › Security System Installer
- › Electronics Repair
- › Manufacturing Engineer
- › Military

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Precision Machining Technology



Is This Your Program?

Do you love creating things with your hands and enjoy working with metal? Is attention to detail one of your strengths? Do you enjoy working with high-tech equipment? To be successful in precision machining careers, you need strong math, science and technology skills. You also need to interpret drawings and have an eye for details.

The Subjects

- › Industrial Blueprint Reading
- › Hand Tool Identification and Usage
- › Manual Machine Tool Operations
- › Programming and Editing CNC Tools
- › Material Heat Treatment
- › 3D Printing Technology Set-up and Operation
- › Precision Measurement Skills
- › CAD Programming
- › Hand Tapping Processes
- › Thread Cutting
- › Surface Plate Work
- › Machining and Shop Safety

The Scoop

The Precision Machining Technology program is a two-year program designed to prepare you for the high-tech world of advanced manufacturing. You will learn how to operate machines such as drill presses, milling machines, lathes, grinders, and computer numeric controlled (CNC) machines, including computer controlled lathes, mills and lasers. When you complete the program, you will be eligible for entry-level positions in precision machining and manufacturing jobs. You also can continue your education by enrolling in post-secondary certificate or college programs.

The Creds

- › OSHA 10-Hour Safety Certificate
- › NIMS Certifications

The Future

- › Machinist
- › CNC Operator
- › Maintenance Mechanic
- › Tool and Die Maker
- › Fabricator
- › Quality Control
- › Production Manager
- › Inspector
- › CAD Designer
- › Military

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Welding



Is This Your Program?

Do you love working with your hands and want to learn the art of welding? Do you like attention to detail? To be successful in welding careers, you need a strong math and science foundation and work ethic. You also need to understand and practice safety procedures, work well with others and tolerate hot and cold work environments.

The Subjects

- › Welding Safety
- › Stick Arc Welding (SMAW)
- › Tig (GTAW)
- › Mig (GMAW) and Flux Core (FCAW)
- › OXY/ACET Cutting
- › Print Reading
- › Plasma Cutting and CNC Plasma Cutting
- › Structural Welding
- › Metallurgy
- › Welding Codes
- › Weldment Symbols
- › Occupational Preparation

The Scoop

The Welding program is certified by the American Welding Society (AWS) and is a two-year program that covers the four basic welding processes: arc, mig, tig, and oxyacetylene. In addition to welding processes, you will learn weldment print reading and safe operating procedures. You will spend a significant amount of time in the lab developing your welding techniques. Upon completion of the program, you will be eligible for entry-level welding positions or you can pursue additional certifications or college degree programs.

The Creds

- › OSHA 10-Hour Safety Certificate
- › AWS SENSE Program Certificate

The Future

- › Welder
- › Manufacturing
- › Equipment Repair
- › Equipment Maintenance
- › Iron Worker
- › Construction Trades
- › Welding Engineering
- › Pipeline Construction
- › Military

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Missouri Options

We don't all learn the same way or at the same pace. That's why we offer an alternative education opportunity through Missouri Options. The program permits full-time, public school enrolled students who are at least 17 years of age and at risk of dropping out or not graduating with their cohort group the opportunity to earn a standard high school diploma.

Missouri Options is competency-based and approved by the State Board of Education. The program uses the HiSET® test for graduation purposes. Upon passing the exam and completion of other program requirements, you are eligible to receive a high school diploma.

This program is a great way to help you stay in school, grow your potential and prep you for success after high school.

If you are interested in applying, you must be referred to us by your school's counselor and complete the application, interview and screening test process.

Embedded Math and Language Arts Credits

We understand that in today's workforce it is important that you have technical trade skills and math and communication skills to succeed. With this in mind, we have developed an embedded math and language arts program into most of our programs.

This means that you not only receive elective credit but also can receive additional math and language arts credits from your high school. This is beneficial if you are concerned with missing out on credits or not being able to enroll at the CTC due to scheduling conflicts.

National Career Readiness Certificate™

The National Career Readiness Certificate™ (NCRC®) is based on your performance on three WorkKeys® skills assessments: Applied Mathematics, Locating Information and Reading for Information. Scores on these assessments determine the certificate level you can earn—bronze, silver, gold, or platinum.

The NCRC gives you proof that you have the skills employers need and that you are prepared for success in the workplace. This improves your career outcomes, and it enhances employers' hiring, training and promotion decisions.

As a CTC student, you will participate in the NCRC certification process.



College Credit? Yes!

In addition to receiving skilled training and certification, you also may also be eligible to receive college credit through our dual/articulated credit program with SFCC. Every program had dual credit offerings and/or articulation agreements. To be eligible for dual credit you must have a cumulative high school grade point average (GPA) of 2.5 or higher.

Program	Max Credits Available
› Automotive Technology	16
› Building Trades	9
› Criminal Justice	6
› Early Childhood Careers	14
› Graphic Design	3
› Health Occupations	2
› Industrial Equipment Maintenance	9
› Precision Machining	11
› Welding	11

These college credits will apply to the relevant short-term certificates or two-year associate degree programs offered at SFCC.

Student Organizations

Besides great classroom experiences, you have the chance to grow personally and have fun outside of the classroom! You can join career and technical student organizations that help you develop leadership, community service and professional skills and friendships. You can participate in conferences, competitions and collaborative projects. It's all about making your learning meaningful and real!

SkillsUSA

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This organization offers you a program of citizenship, leadership, employability, and technical and professional training that helps you become a champion in your career!

If your program is **Automotive Technology, Building Trades, Criminal Justice, Industrial Equipment Maintenance, Graphic Design, Precision Machining, or Welding**, you're eligible to be a part of SkillsUSA.

Family, Career and Community Leaders of America (FCCLA)

If your program is **Early Childhood Careers**, your student organization is FCCLA. It promotes personal growth and leadership development through family and consumer sciences education. Focusing on the roles of family members, wage earners and community leaders, you will develop skills for life: character growth, creative and critical thinking, interpersonal communication, practical knowledge, and career preparation.

Health Occupation Students of America (HOSA)

HOSA promotes careers in the health care industry and provides leadership development, motivation, and recognition exclusively for high school and college students in health science and biomedical education. If your program is **Health Occupations**, HOSA can help you develop effective leadership qualities; build self-confidence; strengthen your technical skills; and set career and educational goals.

National Technical Honor Society (NTHS)

NTHS honors the achievements of **top CTE students**, provides scholarships to encourage the pursuit of higher education, and cultivates excellence in today's highly competitive, skilled workforce.



State Fair Career and Technology Center

3201 W. 16th St. | Sedalia, MO 65301

(660) 530-5806

www.sfccmo.edu/ctc



SFCC is accredited by the Higher Learning Commission. Visit www.sfccmo.edu to learn more.

Nondiscrimination and Accommodations

State Fair Community College does not discriminate on the basis of race, color, national origin, sex, disability, religion, sexual orientation, veteran status, or age in its programs and activities or in employment. The following persons have been designated to handle inquiries regarding the nondiscrimination policy: Director of Human Resources, Hopkins Student Services Center, (660) 596-7484, or Dean of Student and Academic Support Services, Hopkins Student Services Center, (660) 596-7393. The Hopkins Center is located on SFCC's Sedalia campus at 3201 W. 16th St., Sedalia, MO 65301.

Inquiries also may be directed to the U.S. Department of Education, Office of Civil Rights at OCR.KansasCity@ed.gov.

Interested persons may obtain information as to the existence and location of services, activities and facilities at State Fair Community College that are accessible to and usable by persons with disabilities by contacting the Access office, Student Services Office, Hopkins Student Services Center, Room 751, SFCC, 3201 W. 16th Street, Sedalia, MO 65301, (660) 530-5832.

SFCC is Tobacco- and Smoke-Free

State Fair Community College is tobacco- and smoke-free. Use is limited to vehicles parked or driven on designated college parking areas and roads.