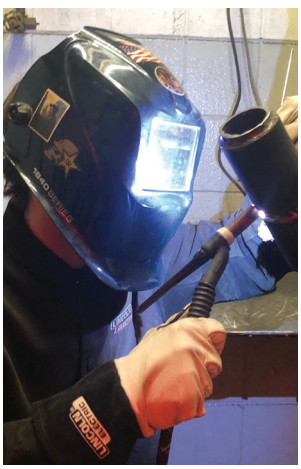
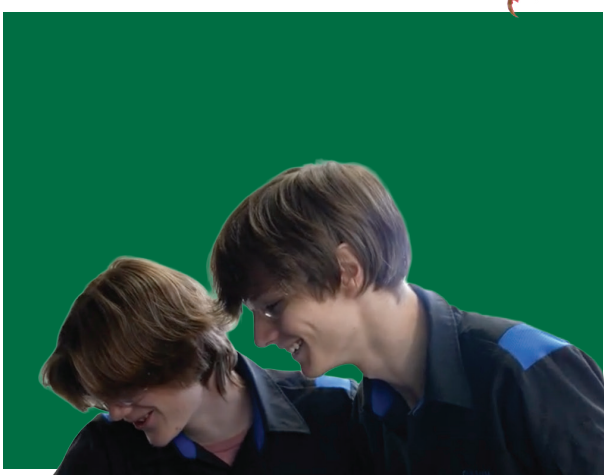
MAHONING COUNTY CAREER AND TECHNICAL CENTER
AND VALLEY STEM + ME2 ACADEMY

PROGRAM GUIDE

2027-2028











WELCOME TO MCCTC & VALLEY STEM

99%
GRADUATING SENIORS EARN 12+ POINTS IN INDUSTRY RECOGNIZED CREDENTIALS

20+
STUDENT CLUBS AND ORGANIZATIONS

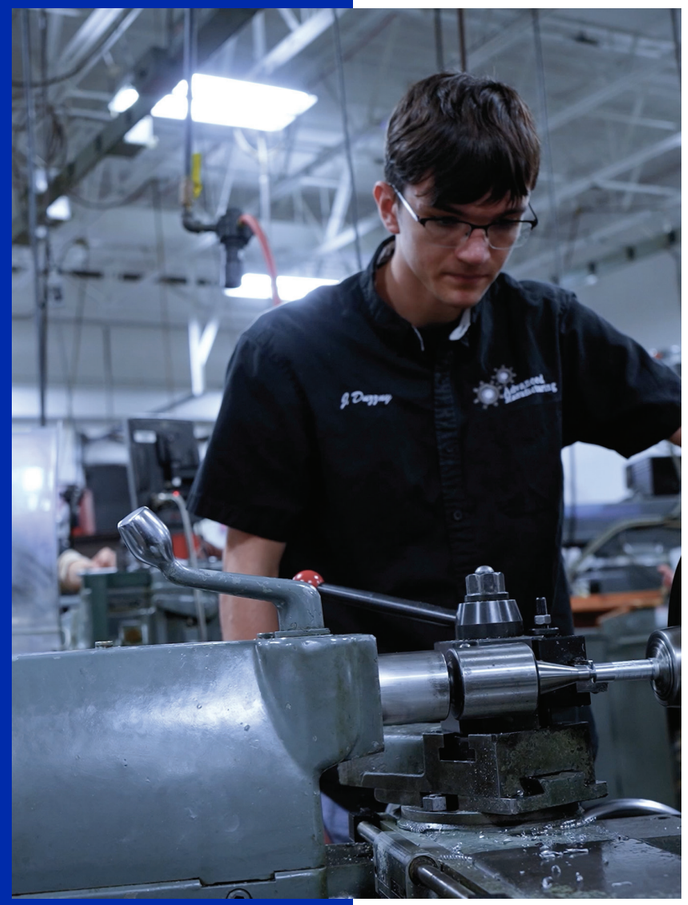
At the Mahoning County Career & Technical Center and Valley STEM + ME2 Academy, students experience hands-on learning that prepares them for real-world success. From healthcare and engineering to skilled trades, information technology, and the arts, our programs continue their education. Valley STEM adds a unique, STEM-Focused approach with advanced technology, project-based learning, and real-world problem-solving opportunities.

This guide will introduce you to our career pathways, explain the enrollment process, and provide important dates and resources for students and families. Whether your goal is to enter the workforce, gain specialized training, or continue to college, MCCTC and Valley STEM are here to help you make the next step toward your future.

SEE FOR YOURSELF!
CONTACT US TO SCHEDULE A TOUR:

Jessica Cene, Marketing & Community Outreach Coordinator
(330) 729-4000 Ext 1214
jessica.cene@mahoningctc.com







VALLEY STEM + ME2 ACADEMY

You'll step into a whole new way of learning where you take the wheel. Pair up in tight-knit crews of classmates who match your energy, your passions, and how you learn best. Together, you won't just study science and technology, you'll dive straight into advanced manufacturing, tackle real engineering challenges, and build actual solutions from day one.

You also won't be waiting until college to get your hands on industry-level tech. Valley STEM plugs you directly into partnerships with cutting-edge companies and universities across the Mahoning Valley and beyond. Every project connects directly to real-world careers, giving you hands-on portfolio experience and a head start on college or the workforce before you even graduate high school.





ALL PROGRAMS

MCCTC PROGRAMS GRADES 11 & 12

- Advanced Manufacturing
- A.I. Systems & Software Development
- Allied Health
- Animal & Pre-Veterinary Science
- Automotive Technology
- Aviation Maintenance
- Biomedical Science
- Building & Construction
- Computer Networking & Cybersecurity
- Cosmetology
- Creative Arts & Design
- Culinary Arts
- Custom Auto Paint, Design & Repair
- Diesel Power Tech
- Digital Media & Broadcast Technology
- Early Childhood Education
- Electricity
- Exercise Science & Physical Therapy Tech
- HVAC
- Industrial Robotics & Automation
- Pre-Nursing
- Public Safety
- Spa Technologies
- Welding

VALLEY STEM + ME2 LABS

9TH GRADE

- Career Exploration
- Career Skills & Communications
- Coding
- Digital Citizenship
- Engineering Logic
- Engineering Principals
- Visual Technology

10TH GRADE

- Additive and Subtractive Manufacturing
- Advanced STEM & Industrial Maintenance
- Automated Systems
- Biomedical Technology
- Career Based Intervention
- Career Exploration
- Clean Energy
- Computer Integrated Manufacturing
- Drones
- Digital Citizenship
- History Through Film
- Mechanisms & Drives
- Media Art
- Principles of Advanced Manufacturing
- Technology Innovations
- Visual Technology

KEY DATES

NOV 19
OPEN HOUSE

DEC 1
APPLICATIONS OPEN AT 3:00PM

FEB 2
LOTTERY DATE IF NEEDED

MID-MARCH
ACCEPTANCE/WAITLIST LETTERS SENT

Mahoning County Career and Technical Center
MCCTC Adult Career Center

ADULT CAREER CENTER







CAREER TRAINING PROGRAMS

- **Auto Technology**
- **EMT**
- **Firefighter 1**
- **Firefighter II**
- **Practical Nursing - Hannah E. Mullins**
- **Medical Assistant**
- **Medical Office Specialist**
- **UH Paramedic**
- **Veterinary Assistant**
- **Welding**

The Adult Career Center at Mahoning County Career & Technical Center is an accredited Ohio Technical Center (OTC) dedicated to creating lifelong learners through dynamic, rigorous technical training and strategic industry partnerships. Driven by a mission to meet local workforce needs, the center offers hands-on career training, professional development, and customized business training in high-demand fields like healthcare, skilled trades, public safety, and technology.

By collaborating closely with regional employers, MCCTC provides students with externship opportunities, industry-recognized credentials, and direct pipelines to employment. Through modern facilities, accessible continuing education, and partnerships across the Youngstown/Warren area, the center empowers adult learners to gain competitive skills and advance their careers.

SEE THE ADULT CAREER CENTER FOR YOURSELF!

CONTACT US TO SCHEDULE A TOUR:

Sarah Searcy, Admissions and Recruiting Coordinator
(330) 729-4100 Ext 1903
sarah.searcy@mahoningctc.com

CLUBS & ORGANIZATIONS

- **DRUG FREE CLUB**
  Drug Free Clubs of America encourages students to make healthy, drug-free choices while rewarding their commitment to a drug-free lifestyle. Participating students complete a drug screening and enjoy incentives such as snacks, pizza, field trips, and gift card raffles. Membership also demonstrates personal responsibility and commitment, making it a valuable addition to a resume.

- **NTHS: NATIONAL TECHNICAL HONORS SOCIETY**
  The National Technical Honor Society recognizes and celebrates outstanding students in Career and Technical Education. Membership honors academic achievement, technical excellence, leadership, and dedication to career success while providing opportunities for scholarships, recognition, and personal growth. Learn more at NTHS.org.

- **ROBOTICS & VEX ROBOTICS**
  Robotics is an educational club that encourages teamwork, the engineering design process, problem-solving, building, journaling, interviewing, and coding. The Robotics Education & Competition Foundation sparks interest in science, technology, engineering, and math (STEM) by engaging students in hands-on, sustainable, and affordable curriculum-based robotics programs.

- **KEY CLUB**
  Key Club is a community service organization affiliated with the Canfield/North Jackson Kiwanis Club that encourages leadership, teamwork, and giving back. Members volunteer with local organizations, including the Rescue Mission of Youngstown, Angels for Animals, Project MKC, and Shepherd of the Valley. Students complete 10 hours of community service, pay $10 in annual dues, and help plan the annual MCCTC Junior/ Senior Prom.

- **MINI DANCE MARATHON**
  Student-led organization hosting a branch of YSU's larger mini dance marathon to raise money for Akron Children's Hospital.



- **CEC**
  CEC promotes the support and inclusion of individuals with diverse needs. Members embrace individuals of all abilities. We partner with the students in the Transition to Work program for activities throughout the year

- **BUSINESS PROFESSIONALS OF AMERICA**
  Business Professionals of America (BPA) helps students develop leadership, business, and technology skills while preparing for future careers. Through competitions, leadership conferences, workshops, and community service, members gain valuable hands-on experience, build professional connections, and strengthen skills needed for success in college and the workplace.

- **ESPORTS**
  Esports gives students the opportunity to compete against high schools across Ohio in organized, team-based video gaming competitions. Players develop teamwork, communication, strategic thinking, problem-solving, and leadership skills while competing in popular games such as Fortnite, Overwatch, Super Smash Bros. Ultimate, Rocket League, Valorant, and Apex Legends. Varsity, JV, and Club teams may be available depending on student participation.

- **BOOK CLUB**
  A student-led organization where members explore their love of reading, discuss books, share ideas, and participate in fun activities and field trips.

- **SKILLSUSA**
  SkillsUSA is a student organization that helps students develop leadership, teamwork, and career-ready skills through hands-on activities, community service, and competitions. Members have opportunities to explore careers, build professional connections, and compete at the local, regional, state, and national levels.

- **STUDENT COUNCIL**
  Student Council allows students to develop leadership by organizing and carrying out school activities and service projects. In addition to planning events that contribute to school spirit and school welfare, the student council is the voice of the student body. They help share students' ideas, interests, and concerns with the school-wide community. Student Council acts as a liaison between the students and administration for an open line of communication.





- **HOSA - FUTURE HEALTH PROFESSIONALS**
  HOSA is a student organization that prepares future healthcare professionals through leadership development, hands-on learning, and competitive events. Students strengthen their medical knowledge, develop teamwork and communication skills, and explore healthcare careers while competing at the regional, state, and national levels. Members also participate in community service activities and gain valuable experiences that prepare them for success in the healthcare field..

- **YSU ENGLISH FESTIVAL**
  The YSU English Festival gives students who enjoy reading the opportunity to explore literature, meet authors, and participate in competitions, games, and creative activities. Students visit the YSU campus for a day of literary experiences alongside students from other schools.

- **ROX (RULING OUR EXPERIENCES)**
  ROX is an empowering program designed to help girls build confidence, develop leadership skills, and navigate everyday challenges. Through engaging activities and meaningful discussions, students strengthen communication, build healthy relationships, develop self-advocacy skills, and learn to recognize their strengths and potential.

- **D & D (DUNGEONS AND DRAGONS)**
  Students collaborate in a fantasy role-playing game that encourages creativity, storytelling, teamwork, critical thinking, and problem-solving as they create characters and embark on adventures.

- **SCHOOL FARM**
  Students gain hands-on experience in agriculture by planning, planting, growing, and harvesting vegetables on the school's farm. Members develop gardening skills, teamwork, and an understanding of sustainable farming practices.



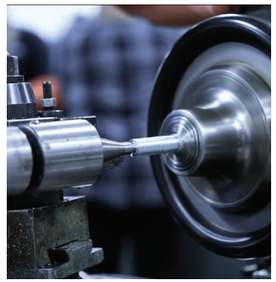
ADVANCED **MANUFACTURING**

FROM HAND TOOLS TO CNC PROGRAMMING: TURN RAW MATERIALS INTO PRECISE REALITY.

Our Advanced Manufacturing program allows students to be creative while also requiring them to be detail-oriented. It teaches students all aspects of machining applications in manufacturing. Students will learn the fundamental principles and practices of cutting, drilling, and grinding using modern machine tools, hand tools (manual drills and lathes), and precision measuring instruments.

Students apply their knowledge of product characteristics, perform necessary calculations, and use precision measuring instruments and layout equipment to mill products to print dimensions.





CAREER OPTIONS

Apprentice Machinist
CAD Operator
Product Manufacturer
Machine Designer
Production Welder
Apprentice Mold Maker
Apprentice Tool and Die Maker
CNC Mill or Lathe Operator
Quality Control Inspector
Production Machinist
Manufacturing Engineer

INDUSTRY CREDENTIALS

Haas CNC Lathe Operator
Haas CNC Mill Operator
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid1

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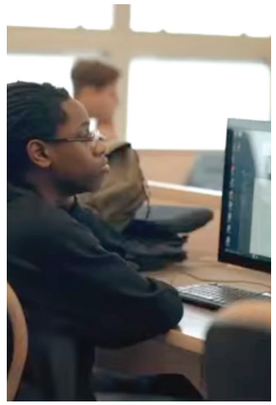
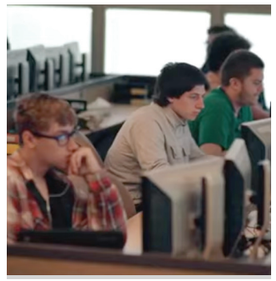
A.I. SYSTEMS & **SOFTWARE DEVELOPMENT**

MASTER PROGRAMMING TOOLS AND SMART MODELS TO SHAPE THE DIGITAL WORLD.

The A.I. Systems & Software Development Program prepares students for the rapidly growing world of software engineering and artificial intelligence. Students will learn the fundamentals of programming, web design, and object-oriented development, while gaining hands-on experience designing and building computer, mobile, and cloud-based applications.

Through project-based learning, students work collaboratively to create innovative software solutions that solve real problems—developing both their technical expertise and creative problem-solving skills. Graduates of this program are ready to pursue careers or further education in software engineering, app development, or artificial intelligence systems.





CAREER OPTIONS

Software Developer / Engineer
Mobile App Developer
Full-Stack Web Developer
Front-End or Back-End Programmer
QA Tester / Software Analyst
Machine Learning Technician
AI Systems Developer
Data Analyst / Engineer
Cloud Computing Specialist
Automation Engineer
Web Designer / Web Developer
UX/UI Designer
Cloud Solutions Architect
Systems Integrator

INDUSTRY CREDENTIALS

Lean Six Sigma - Black Belt
Lean Six Sigma - Green Belt
Lean Six Sigma - Yellow Belt
Google Ads
Google Analytics
IT Specialist - Artificial Intelligence
IT Specialist - Computational Thinking
IT Specialist - Databases
IT Specialist - HTML and CSS
IT Specialist - HTML5 Application Development
IT Specialist - Java
IT Specialist - JavaScript
IT Specialist - Python
IT Specialist - Software Development
FEMA NIMS
CPR/First Aid
Occupational Safety and Health Administration (OSHA10)

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ALLIED HEALTH

LEARN CORE CLINICAL SKILLS AND DIRECT CARE TO SUPPORT HEALTH TEAMS.

Students will learn the skills necessary for successful healthcare careers. Students will be prepared to enter the various fields of therapeutic and diagnostic services like nurse assisting, lab assisting, medical assisting, dental assisting, nutrition, and more. Students in this program can become a Certified Nursing Assistant (CNA), as well as become certified in phlebotomy (PTC), medical assisting (MAC), and EKG technician (CET). Allied Health provides opportunities for job experience and authentic employment in health care. Students in this lab must be passionate, caring, honest, motivated, and dedicated to patient care. Students will also need to be able to pass background and drug testing and have good attendance.





CAREER OPTIONS

Clinical Medical Assisting
LPN and RN programs
Medical Laboratory Science programs
Radiology Technician programs
Physical/Occupational Therapy Assistant programs
Emergency Medical Technician programs
Nursing Assistant
Phlebotomist
Laboratory Assistant
Pharmacy Assistant
Physical Therapy Office Assistant
Chiropractic Office Assistant
Physician/Dental Office Assistant

INDUSTRY CREDENTIALS

CNA
Phlebotomy
Physical Therapy Technician
Patient Care Technician
MedCA Medical Assistant
EKG Technician
BloodBorne Pathogens
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
FEMA NIMS

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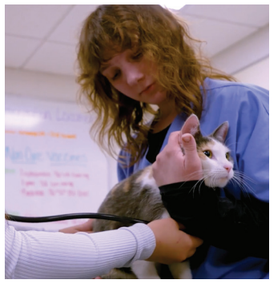
ANIMAL & PRE-VETERINARY SCIENCE

DISCOVER WHAT IT TAKES TO TREAT, SUPPORT, AND PROTECT ALL KINDS OF ANIMALS.

Learners will examine the diverse and complex field of animal science and identify all phases of animal production, research, sales, service, business, and education in which animal scientists may be involved. Animal Science is planned to be a rigorous course in which students will not only learn a general understanding of grooming, companion animal care, and general customer service, but students will also gain skills to work within the veterinary field, leaving with the potential to work at a veterinary office. This program also helps to prepare students for additional education and/or further training related to animal science. Animal care is becoming a very wide career field with numerous opportunities.





CAREER OPTIONS

Receptionist, Assistant at a Vet Office
AKC Volunteer Worker
Pre-Veterinary Programs at College
Zoo Volunteer
Work or Operate an Animal Shelter
Full-time dog pet groomer
Zoology and Zookeeping
Management of Vet Office or Zoo
Veterinary Assistant
Kennel Facilities Operations
Animal Pharmacology and Radiology

INDUSTRY CREDENTIALS

Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
Elanco Animal Science
Elanco Vet Medical
FEMA NIMS

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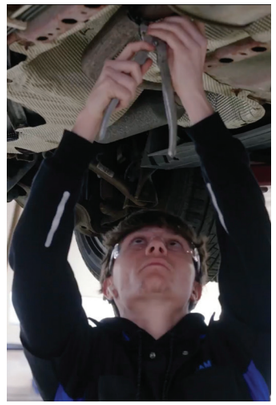
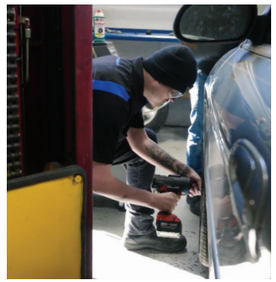
AUTOMOTIVE TECHNOLOGY

TROUBLESHOOT HIGH-TECH CAR SYSTEMS AND PERFORM REAL-WORLD REPAIRS.

The Automotive Technology program offers students a hands-on learning experience studying the basic automotive systems and maintenance of vehicles. Students in this program will study areas in an introduction to the automotive industry, preventive maintenance, brakes, steering and suspension, and engine repair.

The majority of students in this program will be job-ready and working in the field during their senior year while also earning more than 12 points in industry credentials. This program has established partnerships with many local dealerships and auto repair businesses in the area.





CAREER OPTIONS

Quick Service Technician
Engine, Brake, Tire, Suspension Work
General Maintenance
Parts & Inventory
Independent Shops & Chain Service Departments

INDUSTRY CREDENTIALS

ASE Automotive Engine Certification
ASE Automotive Brakes Certification
ASE Automotive Service Certification
ASE Automotive Electrical System Certification
ASE Heating and Air Conditioning Certification
ASE Maintenance and Light Repair Certification
ASE Automotive Manual Drive Train and Axle Certification
ASE Automotive Steering and Suspension Certification
Tire Pressure Monitoring
Meter Certification
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid

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AVIATION MAINTENANCE

LEARN ESSENTIAL FLIGHT MECHANICS AND ENGINE SERVICE FOR HIGH-DEMAND AVIATION CAREERS

Turn your passion for aviation into a high-flying career! MCCTC's two-year Aviation Maintenance Technology program provides students with hands-on training in aircraft maintenance and repair. Students explore hydraulics, electrical systems, welding, piston and turbine engines, sheet metal fabrication, and composite materials while developing valuable technical skills.

Upon successful completion of the program and required training hours, eligible students can pursue testing for their FAA Airframe and Powerplant (A&P) Mechanic Certificates, opening doors to exciting careers in the aviation industry.

By beginning their aviation maintenance education in high school, students can potentially save tens of thousands of dollars in postsecondary training costs while getting a head start on their future!





CAREER OPTIONS

Airframe and Powerplant Technician
Airline Technician
Airframe Specialist
Powerplant Specialist

INDUSTRY CREDENTIALS

(FAA) Powerplant Mechanic
(FAA) Airframe Mechanic
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
FEMA NIMS

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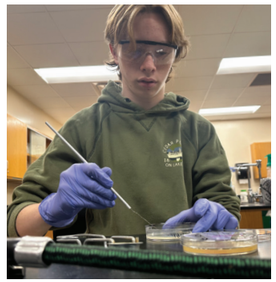
BIOMEDICAL **SCIENCE**

GAIN REAL LAB EXPERIENCE IN CELL BIOLOGY, BIOCHEMISTRY, AND MEDICAL RESEARCH.

Students gain critical thinking skills needed to make discoveries in the field of biology that have important effects in the medical world. Delve into fields such as cell and molecular biology, biochemistry, microbiology, and pathophysiology, and emerge with hands-on experience through laboratory work and research.

Studying biomedical sciences is excellent preparation for entry into college, medical school, and then programs in areas like surgery, genetics, neuroscience, immunology, and other professional programs. It also provides a strong foundation for cutting-edge careers in a range of fields, from biomedical engineering and pharmaceuticals to laboratory and academic research.





CAREER OPTIONS

Microbiologist
Molecular Biologist
Biotechnology Researcher
Bioinformatics Analyst
Data Analyst
Pharmaceutical Development
Regulatory Agent

INDUSTRY CREDENTIALS

FEMA NIMS
CPR/First Aid
Occupational Safety and Health Administration (OSHA10)

BUILDING & **CONSTRUCTION**

GAIN TOTAL JOB SITE SKILLS IN CARPENTRY, STRUCTURAL ASSEMBLY, AND CROSS-TRADE TRAINING.

Build your future in the construction industry through hands-on training and real-world experience! Students develop skills in residential and commercial construction, including framing, roofing, masonry, drywall, flooring, siding, and interior finishes. Through industry-recognized NCCER curriculum and partnerships with Habitat for Humanity, local contractors, and the Carpenters Union Local 171, students gain valuable experience and career connections. Graduates are prepared for entry-level employment, skilled trades apprenticeships, and continued training, with opportunities for advanced apprenticeship placement and increased starting pay.

Students in Electricity, Building & Construction, and HVAC will specialize in their chosen field while rotating through all three programs. This cross-training provides valuable hands-on experience and prepares students for a variety of careers in the skilled trades.





CAREER OPTIONS

Carpenter/Framer/Finish Carpenter
Construction Project Manager
Construction Estimator
Building Inspector
Site Superintendent/Foreman
Facilities Maintenance Technician
Home Builder/Remodeler

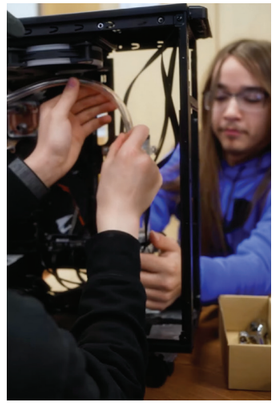
INDUSTRY CREDENTIALS

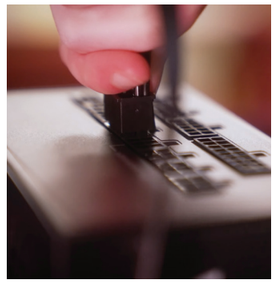
NCCER Construction Core
NCCER General Carpentry
NCCER course offering six credit points as specified by the program.
OSHA 30 Construction Safety Training
First Aid/CPR
Stop the Bleed
Construction Equipment Training: Opportunities to train on equipment such as Aerial Lifts, Scissor Lifts, Excavators, Telehandlers, and Skid Steers

COMPUTER NETWORKING **& CYBERSECURITY**

GAIN HANDS-ON SKILLS IN NETWORK SETUP AND CYBER THREAT DEFENSE.

The Computer Networking & Cybersecurity program equips students with the essential skills for a career in the fast-paced world of IT security. Students will learn to build, maintain, and troubleshoot computer systems while gaining a solid understanding of networking principles, including network design, configuration, and management. The program also focuses on network security, where students will explore techniques for protecting systems from cyber threats, including threat detection, encryption, and ethical hacking. By combining hands-on experience with theoretical knowledge, the program prepares students to safeguard digital infrastructure and pursue certification and careers in cybersecurity.





CAREER OPTIONS

Cybersecurity Analyst
Network Security Specialist
Ethical Hacker / Penetration Tester
Information Security Technician
Network Administrator
Systems Support Specialist
Help Desk or IT Support Technician
Infrastructure Engineer
Cloud Solutions Technician
Data Protection Specialist
Security Operations Center (SOC) Analyst

INDUSTRY CREDENTIALS

Lean Six Sigma - Black Belt
Lean Six Sigma - Green Belt
Lean Six Sigma - Yellow Belt
CompTIA A+
CompTIA Network+
CompTIA Security+
Google Ads
Google Analytics
IT Specialist - Artificial Intelligence
IT Specialist - Cybersecurity
IT Specialist - Device Configuration and Management
IT Specialist - Networking
IT Specialist - Network Security
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
FEMA NIMS

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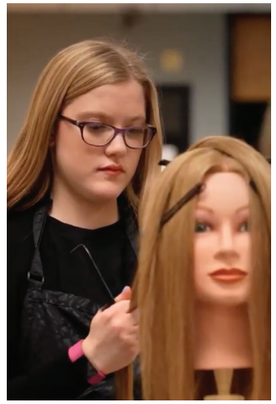
COSMETOLOGY **PROGRAM**

BUILD TOTAL BEAUTY CARE SKILLS AND RUN A REAL SALON TO LAUNCH YOUR BEAUTY CAREER.

Study the diverse field of Cosmetology by learning Hair Care, Skin Care, and Nail Care. Students will also learn the business of beauty while operating their student-run salon. Students in good standing will also have the opportunity to participate in an industry-related internship to obtain 150 of their required 1500 hours.

Upon completion of their hours, students are eligible to take the Ohio State Board of Cosmetology and Barber Board licensure exam to obtain their Cosmetology License.





CAREER OPTIONS

Beauty Salons
Nail Salons
Luxury Day Spas
Medical Spas (Medspas)
Cosmetology Instructors
Account Executives for beauty product manufacturers
Resorts & Destination Salons & Spas
Independent Beauty Entrepreneurship/Self-Employment Opportunities

INDUSTRY CREDENTIALS

Ohio State Board of Cosmetology License
Certified Tanning Operator
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
FEMA NIMS

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CREATIVE ARTS **& DESIGN**

DESIGN BOLD VISUALS AND BUILD A PROFESSIONAL CREATIVE PORTFOLIO.

The Creative Arts & Design Program prepares students for careers in graphic design, digital media, advertising, visual communication, and the creative industries. Through hands-on projects, industry-standard software, and real-world design experiences, students develop the technical skills, creativity, and problem-solving abilities needed to succeed in today's visual communications industry. The two-year program combines traditional art techniques with emerging digital technologies, allowing students to explore their artistic interests while building a professional portfolio.

A career in Creative Arts & Design is not limited to becoming an artist. It is about using creativity, technology, communication, and problem-solving to develop ideas and bring them to life.





CAREER OPTIONS

Graphic Designer
Illustrator / Fine Artist
Art Director / Creative Director
Advertising & Marketing Designer
Brand Identity Designer
Digital Media Designer
Animator / Motion Graphics Designer
Photographer
Web / UX / UI Designer
Game Designer
Packaging Designer
Fashion / Interior Designer
Print Production Specialist
Sign & Display Designer
Freelance Creative Professional

INDUSTRY CREDENTIALS

Adobe Certified Professional Certifications
Occupational Safety and Health Administration (OSHA 10)
CPR/First Aid
Potential Drone Certification: FAA Part 107 Remote Pilot Certification

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CULINARY **ARTS**

GAIN HANDS-ON EXPERIENCE IN FOOD PREP, BAKING, MENU DESIGN, AND KITCHEN LEADERSHIP.

The Culinary Arts program equips students with basic and advanced skills in food preparation, baking, menu design, and kitchen management grounded in food safety and nutrition. Through hands-on experience in catering, dining operations, and inventory control, students prepare for dynamic careers in the competitive food service and hospitality industry. The program also provides a direct bridge to higher education, opening pathways toward two- and four-year degrees in culinary arts, baking, dietetics, and restaurant management. Students receive real-world training in banquet catering, cafeteria service, and full dining room operations to build essential workplace leadership.





CAREER OPTIONS

Assistant Manager
Bakery/Pastry Chef
Caterer
Dietary Aide
Sous Chef
Waiter/Waitress

INDUSTRY CREDENTIALS

Prostart Certification
Serve-Safe Certification
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
FEMA NIMS

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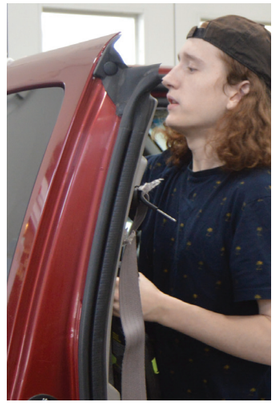
CUSTOM AUTO
PAINT, DESIGN, & REPAIR

FROM VEHICLE RESTORATION TO BODY WELDING, LEARN TO FIX, PAINT, AND RESHAPE CARS.

The Custom Auto Paint, Design, & Repair program offers high-energy, project-based training in classic vehicle restoration, custom painting, pin-striping, and vinyl wraps. Students gain practical experience in essential auto body techniques, including plastic component repair, panel replacement, welding, and structural frame repair.

The curriculum also integrates foundational knowledge of automotive electricity along with detailing and light mechanical work. Through hands-on lab projects, students build a versatile skill set tailored for dynamic careers in the custom auto body industry.





CAREER OPTIONS

Detailer
Painter Assistant
Body Tech Assistant
Parts Store
Glass Company
Interior Work
Radio/Stereo Systems
Welding

INDUSTRY CREDENTIALS

ASE Collision Mechanical and Electrical Certification
ASE Collision Non-Structural Analysis and Damage Repair Certification
ASE Collision Painting and Refinishing Certification
ASE Collision Structural Analysis and Damage Repair Certification
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid

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DIESEL
POWER TECH

BUILD AND REPAIR HIGH-TECH DIESEL ENGINES, POWER TRAINS, AND HEAVY EQUIPMENT.

Students in the Diesel Power Tech course will learn how engines, transmissions, and automatic braking systems (ABS) communicate with one another. This program covers the engine, power train, hydraulic, electrical, and electronic control theory, and design.

This program is taught by an ASE-certified master truck technician and is fully certified by ASE. Students will gain hands-on experience with many systems related to diesel trucks, automotive, marine, and off-road equipment.





CAREER OPTIONS

Heavy Truck Mechanic
Heavy Equipment Mechanic
Construction Mechanic
Small Engine Mechanic
Off-Road Equipment
Tire Shop

INDUSTRY CREDENTIALS

ASE Medium Heavy Truck Brakes Certification
ASE Medium Heavy Diesel Engines Certification
ASE Medium Heavy Truck Electrical Systems Certification
ASE Steering and Suspension Certification
ForkLift/Man Lift
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid

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DIGITAL MEDIA & BROADCAST
TECHNOLOGY

MASTER PROFESSIONAL BROADCAST STUDIOS, AUDIO MIXING, AND VIDEO EDITING TO LAUNCH A CAREER IN MODERN MEDIA.

Lights, camera, action! Explore the exciting world of digital media through hands-on experience in film-making, broadcast journalism, television production, audio production, and video editing. Students will use industry-standard cameras, professional broadcasting equipment, and editing software to create engaging digital content. Through real-world projects, students will produce documentaries, live news broadcasts, podcasts, short films, and promotional videos. This program prepares students for careers in television, film, journalism, and the rapidly growing digital media industry.





CAREER OPTIONS

Broadcast News Anchor or Reporter
Television Producer or Director
Videographer or Cinematographer
Film Director or Filmmaker
Video Editor
Multimedia Content Creator
Podcast Producer
Audio Engineer
Digital Media Producer
Sports Broadcaster
Social Media Content Producer
Motion Graphics Designer
Broadcast Production Technician
r

INDUSTRY CREDENTIALS

Adobe Premiere Pro
Adobe Express
Adobe After Effects
Occupational Safety and Health Administration (OSHA 10)
CPR/First Aid
FEMA National Incident Management System (NIMS)
Potential Certification: FAA Part 107 Remote Pilot Certification

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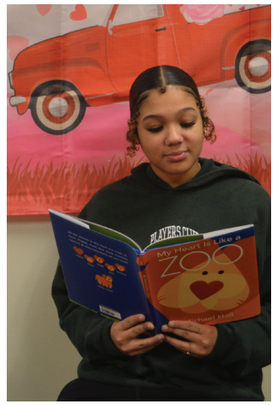
EARLY CHILDHOOD
EDUCATION

SHAPE YOUNG MINDS, CREATE SAFE LEARNING SPACES, AND START YOUR TEACHING CAREER.

The Early Childhood program provides students with intensive preparation to earn the nationally recognized Child Development Associate (CDA) Credential. Through 120 hours of specialized child care training and 480 direct contact hours with children, students develop real-world expertise in creating safe, healthy, and purposeful learning environments. The curriculum focuses on supporting children's physical, intellectual, social, and emotional development through positive guidance strategies. Additionally, students learn to build strong, productive partnerships with families while maintaining a high standard of professional ethics.





CAREER OPTIONS

Day Care Head Teacher
Elementary Teacher Aide
Head Start Assistant
Home Day Care Provider
Institutional Attendant
Nursery School Aide
Recreation Aide
Special Education Aide

You must earn your CDA Credentials for these positions

INDUSTRY CREDENTIALS

CDA
Communicable Diseases
Child Abuse
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
FEMA NIMS

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ELECTRICITY

FROM BASIC WIRING TO HIGH-POWER GRIDS: WIRE HOMES, BUSINESSES, AND REAL ENERGY.

The Electricity program prepares students for opportunities in the electrical and utility industries through classroom instruction and hands-on training. Students gain experience in residential wiring, commercial electrical systems, conduit bending, and generators. A lineman component introduces students to utility linework and related safety practices. Throughout the program, students develop technical knowledge, problem-solving skills, teamwork, and safe work habits. Industry credentials and practical learning experiences help prepare graduates for entry-level employment, apprenticeships, and further education.





Students in Electricity, Building & Construction, and HVAC will specialize in their chosen field while rotating through all three programs. This cross-training provides valuable hands-on experience and prepares students for a variety of careers in the skilled trades.

CAREER OPTIONS

Residential or Commercial Electrician
Electrical Technician
Lineworker (Utility / Power Distribution)
Industrial Maintenance Technician
Solar or Renewable Energy Installer
Electrical Estimator
Building Systems Technician

INDUSTRY CREDENTIALS

NCCER Construction Core
NCCER Electrical Level 1
OSHA 30-Hour Construction
First Aid/CPR
Stop the Bleed
Leppo Equipment Training:
Aerial lifts
Scissor lifts
Excavators
Telehandlers

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EXERCISE SCIENCE
& PHYSICAL THERAPY TECH

STUDY ANATOMY, TREATMENT TECHNIQUES, AND ATHLETIC TRAINING TO JUMPSTART A CAREER IN SPORTS MEDICINE.

Students will study the core concepts from the fields of athletic and fitness training and Pre-Physical Therapy. Areas of emphasis include anatomy and physiology, athletic injuries, prevention, and rehabilitation, basic treatment and therapeutic methods, and personal wellness and nutritional coaching. Students who successfully complete the program can take exams to become Certified Personal Trainers through the National Academy of Sports Medicine (NASM) and/or Physical Therapy Technicians through the American Medical Certification Association (AMCA).





CAREER OPTIONS

Athletic Trainer
Group Fitness Instructor
Personal Trainer
Strength and Conditioning Coach
Occupational Therapy Assistant
Chiropractic Medicine
Physical Therapy Assistant
Sports Nutritionist
Massage Therapist
Biomechanist
Exercise Physiologist

INDUSTRY CREDENTIALS

Personal Trainer
Compliance - Bloodborne Pathogens
NFHS Coach Level 1, 2, 3
CPR/First Aid
Occupational Safety and Health Administration (OSHA10)
Physical Therapy Technician
FEMA NIMS

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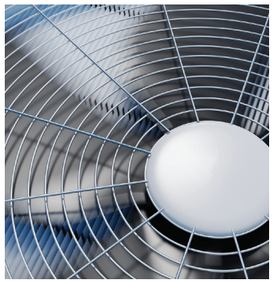
HVAC

MASTER HEATING, COOLING, AND REFRIGERATION SYSTEMS TO KEEP CLIMATE CONTROL RUNNING RIGHT.

Students in the HVAC program gain hands-on experience in electrical systems, sheet metal fabrication, and the diagnosis, installation, and maintenance of heating and cooling equipment. Along with technical skills, the program emphasizes workplace safety, dependability, teamwork, a positive attitude, and a willingness to learn. Through engaging, hands-on projects, students build the skills, confidence, and work ethic needed for success in the HVAC industry.

Students in Electricity, Building & Construction, and HVAC will specialize in their chosen field while rotating through all three programs. This cross-training provides valuable hands-on experience and prepares students for a variety of careers in the skilled trades.





CAREER OPTIONS

HVAC/R Technician
Heating and Cooling System Installer
Refrigeration Mechanic
Energy Management Technician
Sheet Metal Fabricator
Indoor Air Quality Specialist
Building Automation/Controls Technician

INDUSTRY CREDENTIALS

NCCER Construction Core
NCCER HVAC Level 1
OSHA 30-Hour Construction
First aid/ CPR
Stop the Bleed
Leppo Equipment Training:
Aerial lifts
Scissor lifts
Excavators
Telehandlers

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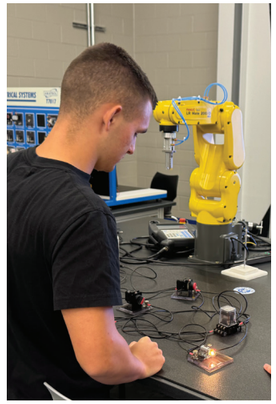
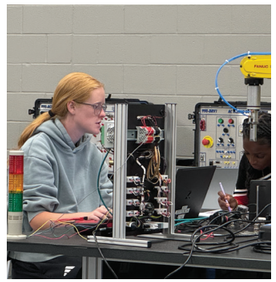
INDUSTRIAL ROBOTICS & AUTOMATION

EARN TOP ROBOTICS CREDENTIALS AND MASTER AUTOMATED TECH TO POWER MODERN INDUSTRY.

The Industrial Robotics & Automation Program prepares students for high-demand careers in advanced manufacturing, robotics, and automation technology. Through a hands-on, project-based curriculum, students build a solid foundation in electrical and mechanical systems, learning how to design, build, and troubleshoot real-world industrial equipment.

Coursework in Engineering Logic build problem-solving skills for real-world challenges. Students can earn industry credentials such as Rockwell Automation PLC, FANUC, SACA, and Parker Industrial Hydraulics, preparing them for the workforce or further study in engineering and technology.





CAREER OPTIONS

Robotics Technician
Automation Systems Specialist
PLC Programmer
Mechatronics Technician
Industrial Controls Engineer
Field Service Technician
Advanced Manufacturing Technician
Industrial Maintenance Technician
Electrical / Mechanical Engineer
(postsecondary pathway)
Systems Integrator
Process Control Technician
Engineering Technologist

INDUSTRY CREDENTIALS

SACA Credentials
Parker Industrial Hydraulics
CPR/First Aid
OSHA 10
Rockwell Automation PLC
FANUC

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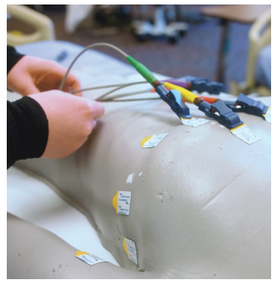
*PRE-***NURSING**

LEARN CLINICAL CARE HANDS-ON NURSING SKILLS AND LAUNCH YOUR LPN CAREER WITH A HEAD START.

The MCCTC Pre-Nursing/LPN Early Placement Program gives high school students an opportunity to get a head start on their practical nursing education while still in high school. In partnership with the Hannah E. Mullins School of Practical Nursing at MCCTC, students begin completing LPN-related coursework and hands-on experiences before transitioning directly into the Adult Education Practical Nursing program after graduation. Through this unique accelerated pathway, students can complete the equivalent of the first quarter of LPN coursework while in high school, allowing them to enter the Adult Education program with a significant head start. Students who successfully complete the pathway can finish the LPN program approximately six months sooner than traditional Adult Education students and save approximately 20% on Adult Education tuition costs.





CAREER OPTIONS

State Tested Nursing Assistant
Licensed Practical Nurse
Registered Nurse
Nurse Practitioner
Emergency Room Nurse
Pediatric Nurse

INDUSTRY CREDENTIALS

CNA
Phlebotomy
Physical Therapy Technician
Patient Care Technician
MedCA Medical Assistant
EKG Technician
Bloodborne Pathogens
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
FEMA NIMS

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PUBLIC **SAFETY**

MASTER LAW ENFORCEMENT, FIREFIGHTING, AND LIVE EMT RESCUE SKILLS TO SAVE LIVES.

In the Public Safety program, juniors learn law enforcement terminology, crime classifications, self-defense, patrol, surveillance, traffic procedures, and correctional officer duties, including inmate processing, security, and mental health awareness. Seniors study Ohio Fire and EMS regulations, Firefighter I & II curriculum, and EMT licensure. They explore firefighting history, fire science, suppression techniques, protective and rescue equipment, and apply skills through live-fire exercises and rescue training. Graduates can take the National Registry Exam for Ohio EMT certification.





CAREER OPTIONS

Corrections Officer
Emergency Dispatcher
Retail/Industrial Security Specialist
Store Detective
Private Investigator
Public Safety Officer
Firefighter

INDUSTRY CREDENTIALS

FEMA NIMS 100, 200, 700, 800
APCO Telecommunicator
FFI & FFII
CPR/First Aid
Occupational Safety and Health Administration (OSHA10)

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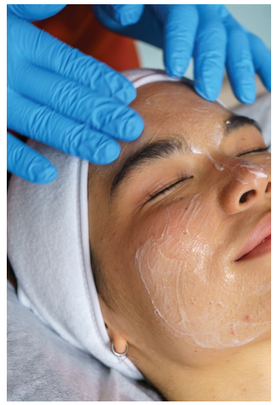
SPA TECHNOLOGIES

BUILD TOTAL BEAUTY CARE SKILLS AND RUN A REAL SALON TO LAUNCH YOUR BEAUTY CAREER.

Transform your passion for beauty and wellness into a rewarding career. The Spa Technologies program at MCCTC is a comprehensive, two-program pathway designed to give high school students a competitive edge in the fast-growing spa and beauty industry. Through hands-on training in a state-of-the-art lab, students will learn professional up-to-date spa techniques, scientific principles, sanitation standards, and specialized client care.



SENIOR-ONLY PROGRAM: NAIL TECH

Learn more at highschool.mahoningctc.com/programs/senior-only-programs

CAREER OPTIONS

Nail and Beauty Salons
Luxury Day Spas
Medical Spas (Medspas)
Resorts & Destination Spas
Independent Beauty Entrepreneurship/Self-Employment Opportunities

INDUSTRY CREDENTIALS

Ohio Licensed Advanced Manicurist- Junior Year
Ohio Licensed Esthetician- Senior Year
Certified Tanning Operator
Occupational Safety and Health Administration (OSHA10)
CPR/First Aid
FEMA NIMS

Senior-Only Nail Tech Program:
Ohio State Board of Cosmetology – Manicurist License

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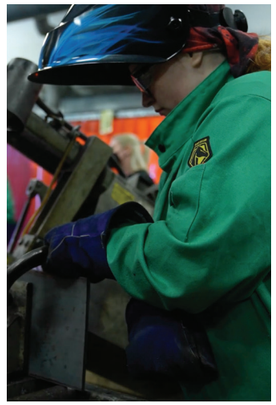
WELDING

BRIDGE TRADITIONAL CRAFTSMANSHIP AND CUTTING-EDGE AUTOMATION IN HIGH-DEMAND TRADES.

The Welding program equips students with high-level skills in multiple welding processes while introducing cutting-edge Lincoln Electric robotic welding systems. Students train in a state-of-the-art lab environment that mirrors real-world industrial and manufacturing settings, gaining expertise in fabrication, construction, aerospace, and automotive applications.

Through hands-on instruction, students master Flux Core Arc Welding (FCAW) for heavy fabrication, Gas Metal Arc Welding (GMAW) for high-speed MIG production, Shielded Metal Arc Welding (SMAW) for structural and repair work, and Gas Tungsten Arc Welding (GTAW) for precision welding of stainless steel, aluminum, and other non-ferrous metals.



CAREER OPTIONS

Robotic Welding Technician
Fabrication Specialist
Structural Welder
Pipefitter / Steamfitter
Aerospace Welder
Automotive Manufacturing Technician
Quality Control / Welding Inspector
Industrial Maintenance Technician
Automation / Robotic Welding Operator
Welding Engineer Assistant

Postsecondary & Industry Pathways:
Welding Engineering Technology
Advanced Manufacturing
Metallurgy and Materials Science
Industrial or Mechanical Engineering

INDUSTRY CREDENTIALS

CPR/First Aid
OSHA 10
IWIP Certification
AWS Certified Welder (FCAW)
AWS Certified Welder (GMAW)
AWS Certified Welder (GTAW)
AWS Certified Welder (SMAW)
AWS Welding Qualification (FCAW)
AWS Welding Qualification (GMAW)
AWS Welding Qualification (GTAW)
AWS Welding Qualification (SMAW)
Lean Six Sigma Green Belt

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DISCOVER THE MCCTC DIFFERENCE

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