



TRUMBULL  
CAREER &  
TECHNICAL  
CENTER

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EEO Disclaimer: The TCTC is an equal opportunity educational institution which does not discriminate against any individual on the basis of race, color, creed, religion, age, sex, disability or national origin.



## are you ready to apply?

- Excellent to Very Good Attendance is Recommended
- Shop & Mechanical Electives are Suggested
- General Tools & Hand-eye Coordination are Helpful Skills
- Students enrolling in the TCTC may have no more than two credit deficiencies toward graduation

## student organizations

- Career Technical Student Organization
- Youth Leadership Council
- Diversity Club
- SADD
- National Technical Honor Society

## additional benefits of a TCTC education

- Job Shadowing
- Job Placement
- Advanced Placement
- Ohio Career / Technical Certification
- Industry Licensure / Certification
- Post-Secondary Articulation
- Comprehensive Career Passport
- Attendance and Achievement Incentives
- College Visitations
- Career Fair
- Ohio Graduation Test Remediation
- Career Assessment
- Student Support Services

## Welding



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# about the program...

## brief overview

It would be difficult, if not impossible to go through a day without touching a dozen or more things around you that have been welded such as cars, furniture ( chair, table, etc) coffee percolators, building and bridges. Even your kitchen sink may have stainless steel welds in it. Aircraft, cars and space vehicles would be just about impossible without welding as would many other necessities and luxuries we take for granted. This technical curriculum combines classroom instruction, laboratory work, participation in student organizations and on-the-job training. In the lab, students work with materials, equipment, and the different processes of the job.

## what you'll learn

- General Safety Practices
- Shield Metal Arc Welding (Stick) Process
- M.I.G. Welding Process
- T.I.G. Welding Process
- Flux-Core Welding Process
- Oxy/Acet. Welding Process
- Oxy/Acet. Brazing Process
- Pipe Welding Process
- Oxy/Acet. Cutting Process
- Plasma Arc Cutting Process
- Air Carbon Arc Cutting Process
- Fabricating, Layout, Forming of Metals
- Blueprints Reading
- Standard Welding Symbols & Abbreviations
- Mathematics Used
- Metallurgy-Casts, Mild Steels, Stainless Aluminum, etc.



## educational opportunities in this pathway

Trade & Technical Education:

- Lincoln Welding School,
- Specialty Areas Include:
  - Motorcycle
  - Racing Cars
  - Structural Pipe Welding

Apprenticeship Opportunities Available through the following Unions:

- Pipe Fitters Union
- Speciality Welding Unions (such as Underwater Welding)
- Construction Unions (Structure Steels & Bridges)

## future career opportunities

Entry-Level Careers:

- Construction & Manufacturing Welder
- Combination Fitter Welder
- Specialist Welder- who may work at Oil Fields, Pipe Lines, Ship Yards, Bridges, & Military Installations
- Productions & Maintenance Welder
- Welding Foreperson
- Job or Fabrication Shop Owner
- Equipment Sales

Careers Available with Further Education:

- Metrologist
  - Construction Engineer
  - Welding Inspector
  - Pipe Welding Inspector

## industry certifications available

- American Welding Society

