Welding
2 Year Program • Kenton, Potter

PROGRAM SUMMARY
- Welding holds much of our world together - from buildings and bridges to airplanes and equipment.
- Take a drawing or blueprint and breathe life into it by fabricating a life size creation.
- Know you have a future with many different job skills that will drive you down the road of success towards manufacturing, field work or owning your own company.
- Skilled Welders Needed! There is a large shortage of welders in the United States with great opportunities for employment.

COLLEGE CREDIT CONNECTIONS
- Alfred State College
- Lincoln Technical Institute
- Niagara County Community College
- Ohio Technical College

SPECIAL NOTES
- Students in this program are eligible for dual credit through Niagara County Community College.
- Steel toed or composite toed work boots are required.

PROGRAM ELIGIBILITY
- Technical Endorsement
- CDOS Credential or Pathway (After 2 Years)
- CTE Graduation Pathway
- 3.75 Credits per Year
WELDING SAFETY
• PPE
• Electrical Shock
• Ferrous
• Cylinder Safety/Storage
• Equipment Operation
• Power Sources

METAL WORKING SAFETY
• Grinding
• Preparation
• Sheering
• Machine Cutting
• Hand Cutting

OXY-FUEL CUTTING
• Equipment Set Up
• Cylinder Handling
• Regulator Safety
• Torches/Gases
• Hand Cutting
• Track Cutting

SMAW (SHIELDED METAL ARC WELDING), STICK
• Equipment Set Up
• Basic Operations
• Types of Electrodes
• Multiple Position Welding
• Out of Position
• Operating Equipment

GMAW (GAS METAL ARC WELDING) / FCAW (FLUX CORED), MIG
• Equipment Set up
• Flowmeters/Gases
• Machine Parts
• Operating Equipment
• Welding Defects

GTAW (GAS TUNGSTEN ARC WELDING), TIG
• Equipment Set up
• Gases/Flowmeter
• Equipment Operator
• Ferrous Metals
• Non-Ferrous Metals
• Torches & Machine types

ROBOTICS
• Types
• Processes
• Automotive Industry
• Machine

PLASMA ARC CUTTING
• Equipment Set Up
• Safety
• Types
• Gases
• Torches
• Light Manufacturing
• Drill Press
• Sheet Metal Bending
• Machine Lathe
• Bridge Port Mill

LIGHT MANUFACTURING
• Drill Press
• Sheet Metal Bending
• Machining Lathe
• Bridge Port Drill