



Bonduel Technology Education

Freshman Transition Night

Bonduel High School, January 11th, 2022

Bonduel Technology Education

Our Mission

Manufacturing *Your* Future

Our Philosophy

Exposure to experiences that will make students college and career ready while providing quality opportunities along the way.



Course Offerings

Materials and Processes

- Manufacturing Projects in the Woodshop
- Woodshop Equipment and Machine Safety
- Measurement
- Staining and Finishing Techniques



Course Offerings

Construction

- Residential Construction Methods
- Construction Equipment and Machine Safety
- Various Construction Projects
- Estimating Building Cost and Materials



Course Offerings

Car Care

- Basic Automobile Care and Maintenance
- Auto Shop Safety
- Systems that make up an Automobile
- Buying, Leasing and Insurance



Course Offerings

Furniture Design

- Face Frame – Case Cabinet Construction
- Advance Wood Joining Techniques
- Individual Project Development
- Creating Blueprints/Work Drawings



Course Offerings

Introduction to Engineering Design (IED)

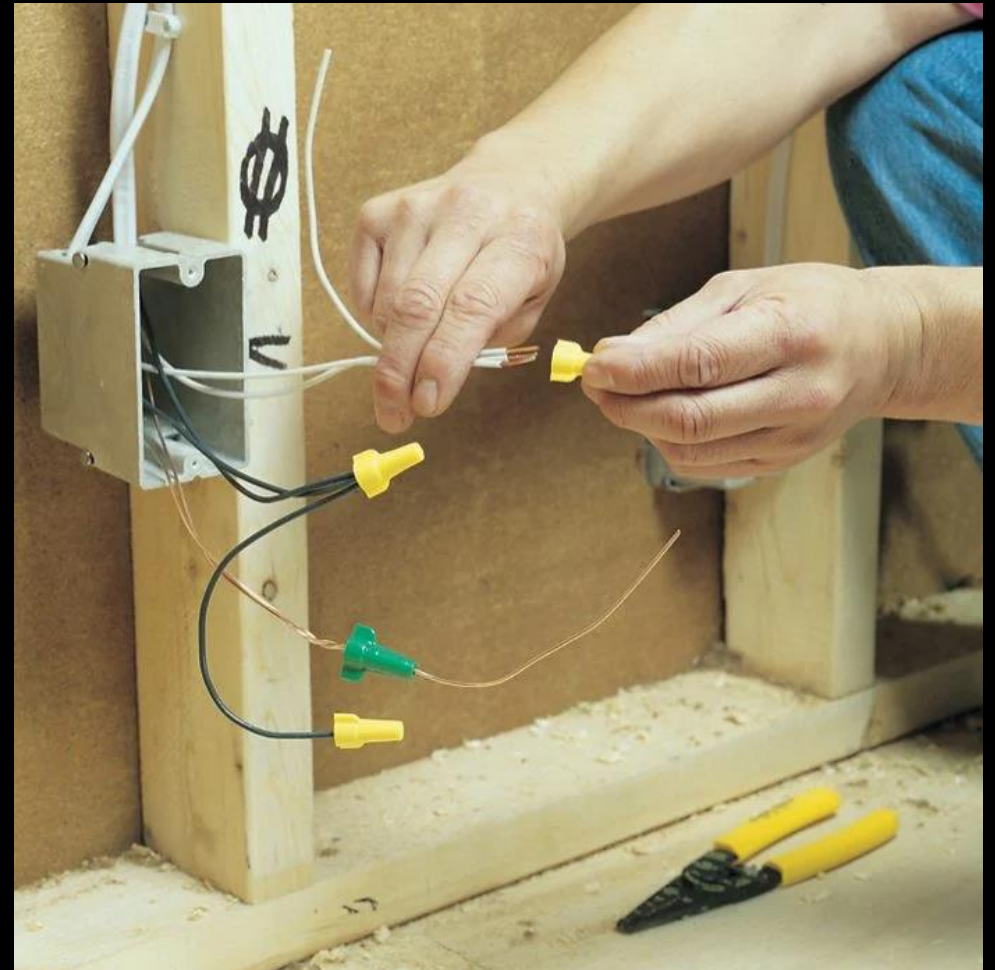
- Basic Engineering Principles
- Autodesk Inventor – 3D Modeling
- 3D Printing / Modeling
- Hands on Engineering Projects



Course Offerings

Residential Wiring

- Basic Residential Wiring Principles
- Electricity Safety
- Wiring Simple Circuits
- Mounting Switches, Outlets, etc



Course Offerings

Electro-Mech

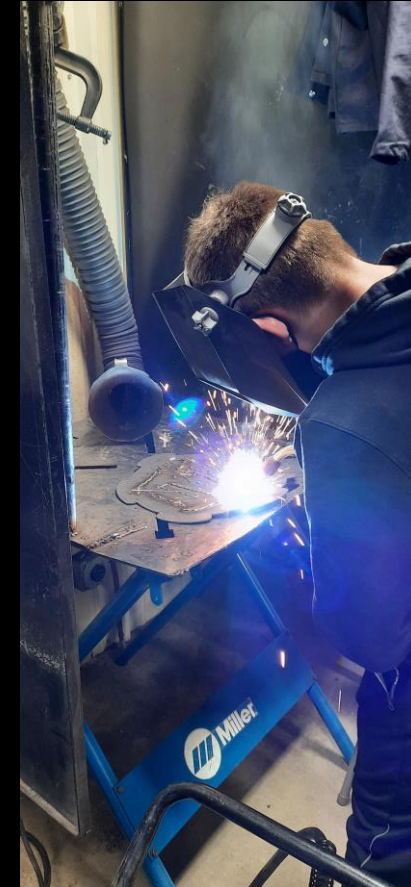
- Introduction to Automation
- Introduction to Digital Circuits
- Introduction to Pneumatics
- Mobile Lab



Course Offerings

Welding

- Welding and Shop Safety
- Different Welding Processes
- Different Welding Position
- Reading Weld Symbols



Course Offerings

Weld Symbols

- Explain Weld Symbols and Joint Types
- Interpret Welding Symbol Information
- Draw Fillet and Groove Weld Symbols
- Welding Joint Geometry



Course Offerings

Gas Metal Arch Welding 2

- Carbon Vertical Welding (3F, 3G)
- Carbon Overhead Welding (4F, 4G)b
- Weld Defects Associated With GMAW
- Mig Welding Stainless



Course Offerings

Metal Fabrication

- Metal/Sheet Metal Layout
- Drilling/Thread/Holes
- Vertical Milling
- Lathe Turning



Course Offerings

CNC Fundamentals

- Writing G&M Code
- Using CAD/CAM Software
- Vertical CNC Milling
- Lathe CNC Turning



Course Offerings

Introduction to Drafting

- Intro to AutoCAD
- Linetypes and Purposes
- Mechanical Drafting
- Intro to Architectural Drawing



Course Offerings

Computer Aided Drafting and Design (CADD)

- AutoCAD Mechanical Drafting
- Revit Architectural Drafting
- Using CAD Drawing for CNC Plasma
- Using CAD Drawing for Laser



Course Offerings

Architectural Drafting and Design

- Residential Drawing
- Commercial Drawing
- Site Layout
- Surveying



Course Offerings

Engineering, Research and Development

- Defining Engineering Problem
- Research Solutions to Problem
- Design Solution
- Develop/Build Solution



Course Offerings

Small Engines

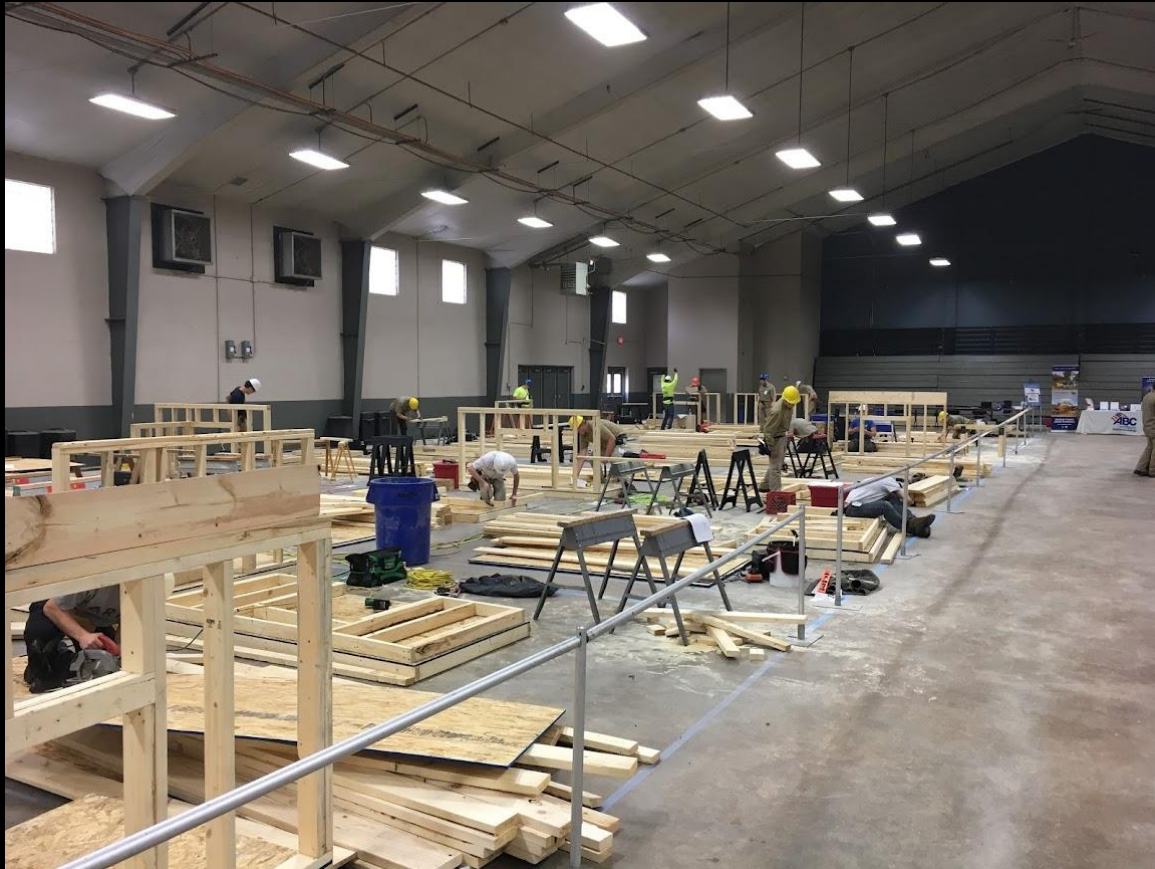
- Small Engine/ Shop Safety
- 4 Stroke Engine Dis/Re assembly
- 2 Stroke Engine
- Small Engine Maintenance



Student Organizations

SkillsUSA

BHS Ice Fishing



REAL SKILLS = REAL JOBS



Thank You

Still have questions???

Contact Bev Pleshek, Travis Schindel or Ben Warning