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Skilled Trades
Waukon High School & NICC
Trinity Fabricators

Part I: Overview of Business

- Trinity Fabricators is an American Institute of Steel Construction (AISC) structurally certified welding and fabricating business. Projects to go through the shop during the externship included steel structures for agriculture facilities, gas stations, and power plants.

Part II: Job Specifics

- Students will fabricate projects to 1/8" accuracy by interpreting welding blueprints and symbols.

Project Joint Configurations:

- Tee
- Lap
- Flared V Groove
- Open Edge
- Square Butt

Part III: Introduce the Project

- The desktop organizer project introduces students to 5 basic joint configurations in 4 different positions, and requires critical thinking skills to complete the correct order of operations.

Part IV: Background

- Understand welding blueprints and symbols
- Understand the correct order of operations.
- Demonstrate welding skill competencies.

Part V: Business Solution

- Trinity Fabricators helped create blueprints for the project and supplied metal.

Part VI: Student Solutions

- When completed the students will grade themselves with the teacher using a rubric.