



School District of Horicon

Course Outline

Learning Targets

Exploring Metals
UNIT: Safety
<p>The student will be able to</p> <ul style="list-style-type: none"> ● Perform skills safely by using specific equipment properly. ● Effectively perform correct safety procedures in the classroom/lab/shop. ● Understand safe and unsafe behaviors and operations.
UNIT: Plasma Cutting
<p>The student will be able to</p> <ul style="list-style-type: none"> ● Follow safety protocols when handling & working with plasma cutting. ● Identify parts of the plasma cutter and know what they do. ● Perform cuts in thick metal and other materials needed in the shop.
UNIT: Shop Equipment/Cutting Tools
<p>The student will be able to</p> <ul style="list-style-type: none"> ● Follow safety protocols when handling & working with various shop equipment. ● Operate and control different machines to cut and shape metal.
UNIT: Materials
<p>Students will be able to:</p> <ul style="list-style-type: none"> ● Identify characteristics and properties of metal. ● Distinguish between the different kinds of metal that they will use. ● Follow safety protocols when handling different kinds of metals.
UNIT: Sheet Metal
<p>The student will be able to</p> <ul style="list-style-type: none"> ● Follow safety protocols when handling & working with sheet metal. ● Identify tools and equipment associated with sheet metal. ● Perform step by step procedures to create a tool tray. ● Demonstrate correct procedures in cutting and forming metal.
UNIT: Foundry
<p>The student will be able to</p> <ul style="list-style-type: none"> ● Follow safety protocols when performing a foundry process. ● Identify tools and equipment associated with foundry. ● Perform step-by-step procedures to ram up a simple pattern mold.

- Demonstrate pouring liquid metal into a mold

UNIT: Welding

The student will be able to

- Follow safety protocols when performing a welding process.
- Properly set up for a welding process by checking equipment, ground, gas and power source.
- Perform one-step competencies in order to learn the welding process.
- Correctly stand and place self, components and metal in the proper position.

Students will be able to meet the learning targets above as evidenced by formative and summative classroom assessments.