Nebraska CTE

Metals and Fabrication (2021-)

Demonstrate professional standards/employability skills as required by the industry. AFNR.HS.23.1	**a** Identify career-development opportunities and opportunities in the associated fields of the welding industry. AFNR.HS.23.1.A
	b Apply metal and fabrication concepts in career situations related to metals and fabrication . AFNR.HS.23.1.B
	c Examine certifications, credentialing, and compliance within the industry. AFNR.HS.23.1.C
Demonstrate safety principles, practices, and guidelines to the work environment. AFNR.HS.23.2	**a** Demonstrate knowledge of safety principles for the laboratory environment and industry. AFNR.HS.23.2.A
	b Identify personal and occupational health practices including safety and first-aid practices. AFNR.HS.23.2.B
	c Demonstrate awareness of safety devices assembled and installed correctly on tools and devices. AFNR.HS.23.2.C
	d Apply the requirements of eye safety protection and other Personal Protection Equipment. AFNR.HS.23.2.D
	e Identify potential injuries or illnesses from the industry and laboratory setting. AFNR.HS.23.2.E
Summarize the components of proper handling and storage of materials. AFNR.HS.23.3	**a** Identify the proper storage methods of chemicals, hazardous materials, and metal products. AFNR.HS.23.3.A
	b Demonstrate proper orientation and operation of all equipment in the laboratory. AFNR.HS.23.3.B
	c Identify the composition and classification of the materials. AFNR.HS.23.3.C
Summarize the scheduling process of a product. AFNR.HS.23.4	**a** Identify the steps required and equipment needed to create the product. AFNR.HS.23.4.A
	b Define schedule requirements to create a product. AFNR.HS.23.4.B
	c Identify materials used in the fabrication process. AFNR.HS.23.4.C

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Create a project design, draw, construct, and preserve a metalworking project. AFNR.HS.23.5

- **a** **Plan metalworking projects using simple drawing techniques.** AFNR.HS.23.5.A
- **b** **State the use and format of the project and calculate a bill of materials.** AFNR.HS.23.5.B
- **c** **Apply metalworking knowledge to plan a project using hand and power tools while demonstrating the safe use of these tools according to industry standards.** AFNR.HS.23.5.C
- **d** **Utilize the proper techniques of welding, cutting, and shaping metal for the construction of the project.** AFNR.HS.23.5.D
- **e** **Prepare metal projects for finishing by selecting and using appropriate materials for grinding, sanding, and polishing with appropriate materials and finishes.** AFNR.HS.23.5.E