Nebraska CTE

Welding (2021-)

Demonstrate professional standards/employability skills as required by welding professionals associated with the agricultural industry. AFNR.HS.9.1.	a	**Identify career development and opportunities in the associated fields of the welding industry.** AFNR.HS.9.1.A
	b	**Apply information in career planning and employment situations related to agricultural welding.** AFNR.HS.9.1.B
	c	**Compare certifications, credentialing, and compliance within the industry.** AFNR.HS.9.1.C
Apply safety principles, practices, and guidelines to the work environment. AFNR.HS.9.2	a	**Demonstrate knowledge of safety principles for the laboratory environment and industry.** AFNR.HS.9.2.A
	b	**Identify personal and occupational health practices including safety and first-aid practices.** AFNR.HS.9.2.B
	c	**Demonstrate awareness of safety devices assembled and installed correctly on tools and devices.** AFNR.HS.9.2.C
	d	**Apply the requirements of eye safety protection and other Personal Protection Equipment.** AFNR.HS.9.2.D
	e	**Identify the injuries/illnesses possible in the industry and laboratory.** AFNR.HS.9.2.E
Perform precision measurements. AFNR.HS.9.3	a	**Select and use proper measuring devices.** AFNR.HS.9.3.A
	b	**Utilize math formulas to complete work and job tasks.** AFNR.HS.9.3.B
	c	**Measure components to begin project preparations.** AFNR.HS.9.3.C
Demonstrate use of welding symbols, materials, and weldability. AFNR.HS.9.4	a	**Develop and identify basic drawings, types, symbols, and list of materials.** AFNR.HS.9.4.A
	b	**Demonstrate the ability to read and/or produce prints.** AFNR.HS.9.4.B
	c	**Identify and explain the knowledge of materials, their properties, and methods to use them.** AFNR.HS.9.4.C
		:stimate materials and cost associated. AFNR.HS.9.4.D

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Demonstrate types of assembling processes. AFNR.HS.9.5

a **Demonstrate welding techniques used in an agricultural setting with the following processes: O-A, Arc, GMAW, and/or GTAW.** AFNR.HS.9.5.A

b **Utilize appropriate procedures to the design and production of a manufactured agricultural part or component.** AFNR.HS.9.5.B

c **Identify the proper finish for the selected materials.** AFNR.HS.9.5.C