Nebraska CTE

Welding 2

Apply safety principles, practices, philosophy, and guidelines to the work environment. STS.HS.37.1	a	**Complete applicable safety assessment with 100% accuracy.** STS.HS.37.1.A
	b	**Use appropriate Personal Protective Equipment (PPE) while in the lab setting.** STS.HS.37.1.B
	c	**Use eye protection in compliance with Neb. Rev. Statute 79-715.** STS.HS.37.1.C
	d	**Carry out the safe application of tools and machines.** STS.HS.37.1.D
	e	**Explain the main hazards that are possible in the lab setting.** STS.HS.37.1.E
	f	**Demonstrate proper handling and storing of materials.** STS.HS.37.1.F
Investigate career opportunities in the welding industry. STS.HS.37.2	a	**Describe work behaviors needed to be employable.** STS.HS.37.2.A
	b	**Identify employment trends in the welding industry** STS.HS.37.2.B
	c	**Identify the responsibilities and characteristics of professionals in the welding industry.** STS.HS.37.2.C
	d	**Identify the training, education, certification and licensing requirements for careers in the welding industry.** STS.HS.37.2.D
Demonstrate the use of welding communications. STS.HS.37.3	a	**Explain welding terminology.** STS.HS.37.3.A
	b	**Describe a quality weld according to the American Welding Society (AWS).** STS.HS.37.3.B
	c	**Measure metric and imperial measurements within an accuracy of a millimeter or 1/32 of an inch.** STS.HS.37.3.C
	d	**Explain mechanical drawings according to the American National Standards Institute (ANSI).** STS.HS.37.3.D
	e	**Explain welding symbols according to the AWS.** STS.HS.37.3.E
	f	**Solve mathematical functions used in welding.** STS.HS.37.3.F
	~	**'nterpret information from a welding procedure sheet.** STS.HS.37.3.G

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Identify the materials, tools, and equipment needed to weld. STS.HS.37.4	**a** Identify tools and their use in welding. STS.HS.37.4.A
	b Identify welding equipment and proper set up procedures according to the manufacturers' recommendations. STS.HS.37.4.B
	c Identify the material used in welding. STS.HS.37.4.C
	d Identify the filler material used in welding. STS.HS.37.4.D
	e Identify types of fasteners, adhesives, and finishes used for welding. STS.HS.37.4.E
Perform metal cutting operations. STS.HS.37.5	**a** Perform an abrasive cutting procedure. STS.HS.37.5.A
	b Perform a mechanical cutting procedure. STS.HS.37.5.B
	c Perform a hot (flame) source cutting operation. STS.HS.37.5.C
	d Perform an arc cutting operation. STS.HS.37.5.D
	e Perform an automated cutting operation. STS.HS.37.5.E
Perform welding procedures in the flat, horizontal, and vertical positions. STS.HS.37.6	**a** Create a pad of surface welds with no welding defects according to the AWS. STS.HS.37.6.A
	b Create groove joints with no welding defects according to AWS standards. STS.HS.37.6.B
	c Create fillet welds with no welding defects according to AWS standards. STS.HS.37.6.C
Produce a product with welding processes. STS.HS.37.7	**a** Use a drawing with welding symbols according to AWS. STS.HS.37.7.A
	b Cut the materials according to the technical drawing. STS.HS.37.7.B
	c Weld the materials according to the technical drawing. STS.HS.37.7.C
	d Finish the materials according to the technical drawing. STS.HS.37.7.D