Nebraska CTE

Welding 1

Apply safety principles, practices, philosophy, and guidelines to the work environment. STS.HS.36.1	**a** Complete applicable safety assessment with 100% accuracy. STS.HS.36.1.A
	b Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. STS.HS.36.1.B
	c Employ eye protection in compliance with Neb. Rev. Statute 79-715. STS.HS.36.1.C
	d Employ the safe application of tools and machines. STS.HS.36.1.D
	e Explain the main hazards that are possible in the lab setting. STS.HS.36.1.E
	f Demonstrate proper handling and storing of materials. STS.HS.36.1.F
Explain career opportunities in the welding industry. STS.HS.36.2	**a** Describe work behaviors needed to be employable. STS.HS.36.2.A
	b Identify employment trends in the welding industry. STS.HS.36.2.B
	c Identify the responsibilities and characteristics of professionals in the welding industry. STS.HS.36.2.C
	d Identify the training, education, certification and licensing requirements for careers in the welding industry. STS.HS.36.2.D
Explain the use of welding communications. STS.HS.36.3	**a** Define welding terminology. STS.HS.36.3.A
	b Measure metric and imperial measurements with an accuracy of a millimeter or 1/16 of an inch. STS.HS.36.3.B
	c Explain mechanical drawings according to the American National Standards Institute (ANSI). STS.HS.36.3.C
	d Explain welding symbols according to the AWS. STS.HS.36.3.D
	e Explain information from a welding procedure sheet. STS.HS.36.3.E
Determine the materials, tools, and equipment needed to we	**a** Identify tools and their use in welding. STS.HS.36.4.A
	b Identify welding equipment and proper set up procedures according to the manufacturer's recommendations. STS.HS.36.4.B

Skip to main content

	c Identify the material used in welding. STS.HS.36.4.C
	d Identify the filler material used in welding. STS.HS.36.4.D
	e Determine types of fasteners, adhesives, and finishes used for welding. STS.HS.36.4.E
Perform metal cutting operations. STS.HS.36.5	**a** Perform an abrasive cutting procedure. STS.HS.36.5.A
	b Perform mechanical cutting procedure. STS.HS.36.5.B
	c Perform a hot (flame) source cutting operation. STS.HS.36.5.C
	d Perform an arc cutting operation. STS.HS.36.5.D
Join material using any methods of welding procedure in the flat and horizontal positions. STS.HS.36.6	**a** Create a pad of surface welds with no welding defects according to AWS standards. STS.HS.36.6.A
	b Create groove joints with no welding defects according to AWS standards. STS.HS.36.6.B
	c Create fillet welds with no welding defects according to AWS standards. STS.HS.36.6.C
	d Produce a product with the welding processes that are available. STS.HS.36.6.D