Nebraska CTE

Manufacturing Processes - Plastics

Apply safety principles, practices, philosophy, and guidelines to the work environment. STS.HS.22.1	**a** Complete applicable safety assessment with 100% accuracy. STS.HS.22.1.A
	b Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. STS.HS.22.1.B
	c Employ eye protection in compliance with Neb. Rev. Statute 79-715. STS.HS.22.1.C
	d Employ the safe application of tools and machines. STS.HS.22.1.D
	e Explain the main hazards that are possible in the lab setting. STS.HS.22.1.E
	f Demonstrate proper handling and storing of materials and chemicals. STS.HS.22.1.F
Identify career opportunities in plastics areas. STS.HS.22.2	**a** Identify responsibilities and characteristics of professionals in a plastics industry. STS.HS.22.2.A
	b Describe work behaviors needed to be employable in a plastics industry. STS.HS.22.2.B
	c Identify the training, education, certification, and licensing requirements for various careers in a plastics industry. STS.HS.22.2.C
	d Identify information concerning high wage, high demand, and high skill careers in plastics. STS.HS.22.2.D
Demonstrate accurate measurements using measurement tools used in plastics. STS.HS.22.3	**a** Identify types of plastics measurement tools. STS.HS.22.3.A
	b Explain plastics measurement tools by use. STS.HS.22.3.B
	c Demonstrate the accurate use of plastics measurement and layout tools to 1/16" precision. STS.HS.22.3.C
Solve math functions and formulas to co[illegible] ma[illegible] tas[illegible]	**a** Identify whole numbers, decimals, fractions, and complex numbers. STS.HS.22.4.A
	b [illegible]pply basic arithmetic operations used in plastics manufacturing. STS.HS.22.4.B

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	c	Solve decimal/fraction conversions used in plastics manufacturing. STS.HS.22.4.C
Identify the use of plastics manufacturing communications. STS.HS.22.5	a	Define plastics manufacturing terminology. STS.HS.22.5.A
	b	Identify the language of plastics manufacturing. STS.HS.22.5.B
	c	Explain business and interpersonal communication appropriate to the work in the plastics manufacturing environment. STS.HS.22.5.C
Determine the materials, tools, machines, and processes required to manufacture a plastics product. STS.HS.22.6	a	Identify the characteristics, properties, and origin of diverse plastics. STS.HS.22.6.A
	b	Differentiate additive and subtractive plastics manufacturing. STS.HS.22.6.B
	c	Identify plastics fasteners by their industry standard applications. STS.HS.22.6.C
	d	Determine feed rate and/or speed settings for a plastic material and process. STS.HS.22.6.D
	e	Explain the operation and application of common plastics industry chemicals. STS.HS.22.6.E
	f	Determine the correct tools, machines, and processes needed to produce a specific plastic product. STS.HS.22.6.F
	g	Estimate the amount of materials and supplies needed to manufacture a plastic product. STS.HS.22.6.G
Manufacture a product that uses plastic as its primary material. STS.HS.22.7	a	Interpret plans, drawings, and specifications to process plastic materials. STS.HS.22.7.A
	b	Employ the standard operation and application of tools and machines along the plastic manufacturing process. STS.HS.22.7.B
	c	Apply the correct types of materials, fasteners, adhesives, and finishes required to manufacture a specific plastic product. STS.HS.22.7.C
	d	Critique a finished product. STS.HS.22.7.D
	e	Appraise the manufactured product. STS.HS.22.7.E