Nebraska CTE

Manufacturing Production - Plastics

Apply safety principles, practices, philosophy, and guidelines to the work environment. STS.HS.25.1	**a** Complete applicable safety assessment with 100% accuracy. STS.HS.25.1.A
	b Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. STS.HS.25.1.B
	c Employ eye protection in compliance with Neb. Rev. Statute 79–715. STS.HS.25.1.C
	d Employ the safe application of tools and machines. STS.HS.25.1.D
	e Explain the main hazards that are possible in the lab setting. STS.HS.25.1.E
	f Demonstrate proper handling and storing of materials and chemicals. STS.HS.25.1.F
Execute accurate measurements using plastics measurement and layout tools. STS.HS.25.2	**a** Identify types of plastics measurement and layout tools. STS.HS.25.2.A
	b Categorize plastics measurement and layout tools by use. STS.HS.25.2.B
	c Demonstrate the accurate use of measurement and layout tools to 1/16" precision. STS.HS.25.2.C
Solve math functions and formulas to complete plastics job/workplace tasks. STS.HS.25.3	**a** Identify whole numbers, decimals, fractions, and complex numbers used in the workplace. STS.HS.25.3.A
	b Apply basic arithmetic operations used in the workplace. STS.HS.25.3.B
	c Solve decimal and fraction conversions used in the workplace. STS.HS.25.3.C
Identify career opportunities in the plastics manufacturing industry. STS.HS.25.4	**a** Describe work behaviors needed to be employable. STS.HS.25.4.A
	b Describe appropriate work behavior that meets or exceeds plastics manufacturing industry standards. STS.HS.25.4.B
	c Identify the education, certification, or licensure required in plastics manufacturing careers. STS.HS.25.4.C

Skip to main content

	d Identify the value that may be added to the community by plastics manufacturing professionals. STS.HS.25.4.D
Demonstrate the use of plastic manufacturing communications. STS.HS.25.5	a Define plastic manufacturing terminology. STS.HS.25.5.A
	b Estimate manufacturing timelines based on criteria. STS.HS.25.5.B
	c Utilize business and interpersonal communication appropriate to the plastics manufacturing work environment. STS.HS.25.5.C
	d Identify the industry standard compensation for a plastics manufacturing professional. STS.HS.25.5.D
Select the materials, tools, machines, and processes required to manufacture a plastic product. STS.HS.25.6	a Identify the origins, characteristics, and properties of various types of plastics. STS.HS.25.6.A
	b Categorize fasteners by their industry standard applications. STS.HS.25.6.B
	c Differentiate between various types of mechanical and chemical fasteners. STS.HS.25.6.C
	d Estimate amount of materials and supplies needed for a plastic product. STS.HS.25.6.D
	e Explain the operation and application of common industry finishes. STS.HS.25.6.E
	f Assess potential environmental and health impacts of using specific materials or processes. STS.HS.25.6.F
	g Determine the correct tools and machines needed to produce a specific plastic product. STS.HS.25.6.G
Manufacture a production level product that uses plastic as its primary material. STS.HS.25.7	a Interpret plans, drawings, and specifications to process materials. STS.HS.25.7.A
	b Coordinate the standard operation and application of tools and machines along the manufacturing process. STS.HS.25.7.B
	c Plan and apply the type of materials, fasteners, adhesives, and finishes required to manufacture a specific product. STS.HS.25.7.C
	d Critique a finished product. STS.HS.25.7.D
	e Appraise the manufacturing process for streamlining opportunities. STS.HS.25.7.E