Nebraska CTE

Systems Engineering and Project Management

Apply safety principles, practices, philosophy, and guidelines to the work environment. STS.HS.32.1	**a** Complete applicable safety assessment with 100% accuracy. STS.HS.32.1.A
	b Employ eye protection in compliance with Neb. Rev. Statute 79-715. STS.HS.32.1.B
	c Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. STS.HS.32.1.C
	d Employ the safe application of tools and machines. STS.HS.32.1.D
	e Explain the main hazards that are possible in the lab setting. STS.HS.32.1.E
	f Demonstrate proper handling and storing of materials. STS.HS.32.1.F
Identify career opportunities in engineering areas. STS.HS.32.2	**a** Identify responsibilities and characteristics of professionals in an engineering industry. STS.HS.32.2.A
	b Describe work behaviors needed to be employable in an engineering industry. STS.HS.32.2.B
	c Identify the training, education, certification, and licensing requirements for various careers in an engineering industry. STS.HS.32.2.C
	d Identify high wage, high demand, and high skill careers in engineering. STS.HS.32.2.D
Employ a formal engineering design process to create a solution to an existing problem. STS.HS.32.3	**a** Collaborate with industry experts, mentors, or advanced students. STS.HS.32.3.A
	b Demonstrate authentic engineering methods and documentation. STS.HS.32.3.B
	c Apply task-specific mathematical concepts. STS.HS.32.3.C
	d Apply task-specific scientific concepts. STS.HS.32.3.D
	e Complete a prototype or minimum viable product (MVP). STS.HS.32.3.E
	f Perform engineering tests to evaluate the prototype or MVP. STS.HS.32.3.F

g **Develop a marketing plan and production plan.** STS.HS.32.3.G

h **Report on the importance of each step of the engineering process.** STS.HS.32.3.H