Nebraska CTE

Advanced Electronics

Apply safety principles, practices, philosophy and guidelines to the work environment. STS.HS.1.1	**a** Complete applicable safety assessment with 100% accuracy. STS.HS.1.1.A
	b Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. STS.HS.1.1.B
	c Employ eye protection in compliance with Neb. Rev. Statute 79-715. STS.HS.1.1.C
	d Carry out the safe application of tools and machines. STS.HS.1.1.D
	e Explain the main hazards that are possible in the lab setting. STS.HS.1.1.E
	f Demonstrate proper handling and storing of materials. STS.HS.1.1.F
Investigate career opportunities in the electronics industry. STS.HS.1.2	**a** Identify responsibilities and characteristics of professionals in industry. STS.HS.1.2.A
	b Describe work behaviors needed to be employable. STS.HS.1.2.B
	c Identify the training, education, certification, and licensing requirements for various careers in the electronics industry. STS.HS.1.2.C
	d Identify high-wage, high-demand, and high-skill electronics careers. STS.HS.1.2.D
Employ electronic terminology, symbols, laws, and equipment. STS.HS.1.3	**a** Identify proper electronic terminology and symbols. STS.HS.1.3.A
	b Compute and manipulate the Laws of Electronics (i.e., Ohms, Watts, Kirchhoff's). STS.HS.1.3.B
	c Identify and operate all basic electronic equipment. STS.HS.1.3.C
Construct electronic circuits. STS.HS.1.4	**a** Interpret, design, and synthesize electronic circuits. STS.HS.1.4.A
	b Explain the characteristics of AC Electricity and its components. STS.HS.1.4.B
	c Explain basic solid state fundamentals. STS.HS.1.4.C
	d Explain logic gate circuits. STS.HS.1.4.D
	e Troubleshoot and analyze electronic circuits. STS.HS.1.4.E