

Introduction to Electronics

Apply safety principles, practices, philosophy, and guidelines to the work environment. STS.HS.17.1

a Complete applicable safety assessment with 100% accuracy. STS.HS.17.1.A

b Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. STS.HS.17.1.B

c Employ eye protection in compliance with Neb. Rev. Statute 79–715. STS.HS.17.1.C

d Employ the safe application of tools and machines. STS.HS.17.1.D

e Explain the main hazards that are possible in the lab setting. STS.HS.17.1.E

f Demonstrate proper handling and storing of materials and chemicals. STS.HS.17.1.F

Identify career opportunities in the electronics industry. STS.HS.17.2

a Describe work behaviors needed to be employable. STS.HS.17.2.A

b Identify employment trends in various electronics industries. STS.HS.17.2.B

c Identify the responsibilities and characteristics of professionals in the electronics industry. STS.HS.17.2.C

d Identify the training, education, certification, and licensing requirements for various careers in the electronics industry. STS.HS.17.2.D

Employ electronic terminology, symbols, laws, and equipment. STS.HS.17.3

a Identify proper electronic terminology and symbols. STS.HS.17.3.A

b Compute the Laws of Electronics (i.e., Ohms, Watts, Kirchhoff's). STS.HS.17.3.B

c Identify and operate basic electronic equipment. STS.HS.17.3.C

Classify components and their uses in electronic circuits. STS.HS.17.4

a Identify connections and components in electronic circuits. STS.HS.17.4.A

b Explain the purpose of individual components in electronic circuits. STS.HS.17.4.B

c Explain how individual components will affect the function of a circuit. STS.HS.17.4.C

Design and construct electronic

a Illustrate locations and order for components in a functioning electronic circuit. STS.HS.17.5.A

circuits. STS.HS.17.5

b Construct circuits that function in the way they are designed. STS.HS.17.5.B

c Move and replace components to change the function of an electronic circuit. STS.HS.17.5.C