

# Introduction to Skills and Technical Sciences

Apply safety principles, practices, philosophy, and guidelines to the work environment. [STS.HS.19.1](#)

- a** Complete applicable safety assessment with 100% accuracy. [STS.HS.19.1.A](#)
- b** Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. [STS.HS.19.1.B](#)
- c** Employ eye protection in compliance with Neb. Rev. Statute 79-715. [STS.HS.19.1.C](#)
- d** Employ the safe application of tools and machines. [STS.HS.19.1.D](#)
- e** Explain the main hazards that are possible in the lab setting. [STS.HS.19.1.E](#)
- f** Demonstrate proper handling and storing of materials. [STS.HS.19.1.F](#)

Identify career opportunities in Skilled and Technical Sciences areas. [STS.HS.19.2](#)

- a** Identify responsibilities and characteristics of professionals in a skilled and technical sciences industry. [STS.HS.19.2.A](#)
- b** Describe work behaviors needed to be employable in a skilled and technical sciences industry. [STS.HS.19.2.B](#)
- c** Identify the training, education, certification, and licensing requirements for various careers in a skilled and technical sciences industry. [STS.HS.19.2.C](#)
- d** Identify high wage, high demand, and high skill careers in skilled and technical sciences. [STS.HS.19.2.D](#)

Apply appropriate academic and technical skills to produce a product. [STS.HS.19.3](#)

- a** Employ project-related math operations and formulas. [STS.HS.19.3.A](#)
- b** Employ effective verbal, written, and/or visual communication skills. [STS.HS.19.3.B](#)
- c** Define course content vocabulary. [STS.HS.19.3.C](#)
- d** Conduct the accurate use of measurement tools [STS.HS.19.3.D](#)

Identify the materials, tools, machines, and equipment required to

- a** Identify types of materials to be used for various products. [STS.HS.19.4.A](#)
- b** Identify types of fasteners for various products. [STS.HS.19.4.B](#)

**produce a product.** STS.HS.19.4

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**c Identify types of adhesives for various products.** STS.HS.19.4.C

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**d Identify types of finishes for various products.** STS.HS.19.4.D

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**e Identify the correct tools, machines, and equipment appropriate for a specific operation or process.** STS.HS.19.4.E

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**Produce a product(s).** STS.HS.19.5

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**a Interpret working drawings of a product to be produced.** STS.HS.19.5.A

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**b Select the proper materials adhesives, fasteners and finishes for a product.** STS.HS.19.5.B

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**c Demonstrate the proper tool, machine, or equipment selection and usage for each corresponding operation needed to produce a product.** STS.HS.19.5.C

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**d Execute a plan of procedure.** STS.HS.19.5.D