

# Residential Electrical Wiring

Apply safety principles, practices, philosophy, and guidelines to the work environment. [STS.HS.29.1](#)

- a** Complete applicable safety assessment with 100% accuracy. [STS.HS.29.1.A](#)
- b** Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. [STS.HS.29.1.B](#)
- c** Employ eye protection in compliance with Neb. Rev. Statute 79–715. [STS.HS.29.1.C](#)
- d** Employ the safe application of tools and machines. [STS.HS.29.1.D](#)
- e** Explain the main hazards that are possible in the lab setting. [STS.HS.29.1.E](#)
- f** Demonstrate proper handling and storing of materials. [STS.HS.29.1.F](#)
- g** List the techniques and practices used to prevent fires. [STS.HS.29.1.G](#)

Identify career opportunities in the electrical industry. [STS.HS.29.2](#)

- a** Describe work behaviors needed to be employable. [STS.HS.29.2.A](#)
- b** Identify employment trends in the electrical industry. [STS.HS.29.2.B](#)
- c** Identify the responsibilities and characteristics of professionals in the electrical industry. [STS.HS.29.2.C](#)
- d** Identify the training, education, certification, and licensing requirements for careers in the electrical industry. [STS.HS.29.2.D](#)

Demonstrate the use of electrical communications. [STS.HS.29.3](#)

- a** Recall vocabulary related to the electrical environment. [STS.HS.29.3.A](#)
- b** Apply math calculations for measurements and OHM'S law. [STS.HS.29.3.B](#)
- c** Interpret electrical symbols, plans, drawings, and codes. [STS.HS.29.3.C](#)

Demonstrate the proper uses of electrical components. [STS.HS.29.4](#)

- a** Employ National Electric Code (NEC) standards when wiring electrical components. [STS.HS.29.4.A](#)
- b** Demonstrate the rough-in of electrical devices to meet NEC standards. [STS.HS.29.4.B](#)
- c** Demonstrate the connection of electrical devices to meet NEC standards. [STS.HS.29.4.C](#)

---

**d Demonstrate the installation of electrical devices to meet NEC standards.** STS.HS.29.4.D

---

**Demonstrate the use of materials, tools, and equipment needed in electricity.** STS.HS.29.5

**a Demonstrate the proper use of electrical tools and equipment.** STS.HS.29.5.A

---

**b Identify the different types of wires used for electricity.** STS.HS.29.5.B

---

**c Demonstrate the proper use of electrical hardware.** STS.HS.29.5.C

---

**d Demonstrate the proper use of low and high voltage circuits.** STS.HS.29.5.D