

# Construction Trades 2

Apply safety principles, practices, philosophy and guidelines to the work environment. [STS.HS.11.1](#)

- a** Complete applicable safety assessment with 100% accuracy. [STS.HS.11.1.A](#)
- b** Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. [STS.HS.11.1.B](#)
- c** Employ eye protection in compliance with Neb. Rev. Statute 79-715. [STS.HS.11.1.C](#)
- d** Employ the safe application of tools and machines. [STS.HS.11.1.D](#)
- e** Explain the main hazards that are possible in the lab setting. [STS.HS.11.1.E](#)
- f** Demonstrate proper handling and storing of materials. [STS.HS.11.1.F](#)
- g** Demonstrate proper use of a ladder. [STS.HS.11.1.G](#)
- h** Identify the role of OSHA in establishing and maintaining safe work environments. [STS.HS.11.1.H](#)

Identify career opportunities in the construction industry. [STS.HS.11.2](#)

- a** Describe work behaviors needed to be employable. [STS.HS.11.2.A](#)
- b** Identify employment trends in various construction sectors (residential, commercial, industrial, energy, green technologies, etc.). [STS.HS.11.2.B](#)
- c** Identify the responsibilities and characteristics of professionals in the construction industry. [STS.HS.11.2.C](#)
- d** Identify the training, education, certification and licensing requirements for various careers in the construction industry. [STS.HS.11.2.D](#)

Demonstrate use of construction communications. [STS.HS.11.3](#)

- a** Define construction terminology. [STS.HS.11.3.A](#)
- b** Identify construction tools and equipment needed for a project. [STS.HS.11.3.B](#)
- c** Interpret construction plans, drawings and schedules. [STS.HS.11.3.C](#)

Summarize building systems and components. [STS.HS.11.4](#)

- a** Identify and inspect construction materials needed to complete a project (ie. dimensional, engineered, or steel). [STS.HS.11.4.A](#)
- b** Identify different types of fasteners, adhesives, and finishes needed to complete a project. [STS.HS.11.4.B](#)

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**c Describe the building systems needed to complete a construction project.** STS.HS.11.4.C

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**d Describe the building components needed to complete a construction project (i.e. trusses, joists, beams, etc.).** STS.HS.11.4.D

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**e Identify emerging building trends/technology.** STS.HS.11.4.E

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**Identify building codes and permitting processes.** STS.HS.11.5

**a Identify local, state, and national building regulations and codes.** STS.HS.11.5.A

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**b Describe the requirements needed to obtain a building permit.** STS.HS.11.5.B

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**c Identify appropriate building inspections.** STS.HS.11.5.C

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**Demonstrate the building process.** STS.HS.11.6

**a Identify, receive, and inspect materials.** STS.HS.11.6.A

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**b Apply math functions and formulas to complete job/workplace tasks.** STS.HS.11.6.B

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**c Employ tools and equipment to perform material takeoff (MTO) from the drawings and meeting specifications.** STS.HS.11.6.C

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**d Construct a project using dimensional, engineered, or steel components.** STS.HS.11.6.D

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**Install construction sub-systems (ie. electrical, plumbing, HVAC, etc.).** STS.HS.11.7

**a Identify, receive, and inspect materials.** STS.HS.11.7.A

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**b Apply math functions and formulas to complete construction job/workplace tasks.** STS.HS.11.7.B

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**c Install structural, mechanical, and finish sub-systems correctly to meet current local, state, and national codes.** STS.HS.11.7.C

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