

# Architectural Design 2

Apply safety principles, practices, and guidelines to the work environment. [STS.HS.7.1](#)

- a Complete applicable safety assessment with 100% accuracy. [STS.HS.7.1.A](#)
- b Employ eye protection in compliance with Neb. Rev. Statute 79-715. [STS.HS.7.1.B](#)
- c Identify office safety hazards. [STS.HS.7.1.C](#)
- d Employ appropriate Personal Protective Equipment (PPE). [STS.HS.7.1.D](#)
- e Employ proper ergonomics. [STS.HS.7.1.E](#)

Identify architectural career opportunities. [STS.HS.7.2](#)

- a Identify the primary duties and attributes of an architect or architectural technician. [STS.HS.7.2.A](#)
- b Identify various careers within the architectural profession as well as the training and certification needed for each. [STS.HS.7.2.B](#)
- c Identify the relationships between stakeholders involved in a construction project. [STS.HS.7.2.C](#)
- d Identify positive work behaviors and personal qualities needed to be employable. [STS.HS.7.2.D](#)

Apply math terminology, functions, and formulas to architectural design. [STS.HS.7.3](#)

- a Identify whole numbers, decimals, fractions, and complex numbers. [STS.HS.7.3.A](#)
- b Apply arithmetic operations. [STS.HS.7.3.B](#)
- c Solve decimal/fraction conversions. [STS.HS.7.3.C](#)
- d Apply mathematical functions used to solve problems. [STS.HS.7.3.D](#)
- e Interpret scale using architect or engineer scales. [STS.HS.7.3.E](#)

Explain site characteristics and how they affect building design and land development. [STS.HS.7.4](#)

- a Identify the impact of infrastructure (i.e., storm water runoff, pedestrian and vehicular access). [STS.HS.7.4.A](#)
- b Explain environmental factors essential to design and construction. [STS.HS.7.4.B](#)

Explain residential and commercial building

- a Identify general categories of structural systems in residential and commercial buildings. [STS.HS.7.5.A](#)

**systems.** STS.HS.7.5

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**b Explain code requirements and constraints as they pertain to current local and national building codes.** STS.HS.7.5.B

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**c Identify alternative construction methods and materials.** STS.HS.7.5.C

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**Create design solutions.** STS.HS.7.6

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**a Create multipage working drawings.** STS.HS.7.6.A

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**b Create applicable drawing views, details, schedules, notes, and index tables.** STS.HS.7.6.B

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**c Employ correct annotation of line type, section line labels, and dimensions.** STS.HS.7.6.C

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**Produce a project proposal.** STS.HS.7.7

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**a Employ architectural terminology in all communication.** STS.HS.7.7.A

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**b Employ correct annotation of line type, section line labels, and dimensions.** STS.HS.7.7.B

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**c Create shaded and rendered presentation drawings.** STS.HS.7.7.C

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**d Identify plan review requirements needed to obtain a building permit.** STS.HS.7.7.D

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