

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

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

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

Create design solutions. STS.HS.7.6

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

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

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

Produce a project proposal. STS.HS.7.7

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

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

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

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