Nebraska CTE

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
Ex[illegible] co[illegible]	**[illegible]dentify general categories of structural systems in residential and commercial [illegible]uildings.** STS.HS.7.5.A

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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