Nebraska CTE

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
	d	Describe the building components needed to complete a construction project (i.e. trusses, joists, beams, etc.). STS.HS.11.4.D
	e	Identify emerging building trends/technology. STS.HS.11.4.E
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
	b	Describe the requirements needed to obtain a building permit. STS.HS.11.5.B
	c	Identify appropriate building inspections. STS.HS.11.5.C
Demonstrate the building process. STS.HS.11.6	a	Identify, receive, and inspect materials. STS.HS.11.6.A
	b	Apply math functions and formulas to complete job/workplace tasks. STS.HS.11.6.B
	c	Employ tools and equipment to perform material takeoff (MTO) from the drawings and meeting specifications. STS.HS.11.6.C
	d	Construct a project using dimensional, engineered, or steel components. STS.HS.11.6.D
Install construction sub-systems (ie. electrical, plumbing, HVAC, etc.). STS.HS.11.7	a	Identify, receive, and inspect materials. STS.HS.11.7.A
	b	Apply math functions and formulas to complete construction job/workplace tasks. STS.HS.11.7.B
	c	Install structural, mechanical, and finish sub-systems correctly to meet current local, state, and national codes. STS.HS.11.7.C