South Dakota CTE

Fundamental Ag Structures Technology (18403) (2022)

Use safe practices associated with agriculture structures. AGS 1	1 **Demonstrate safe use and knowledge of tools and equipment when constructing agricultural structures.** AGS 1.1
	2 **Demonstrate workplace/worksite safety procedures and protocols.** AGS 1.2
Develop plans for an agriculture structure project. AGS 2	1 **Use computer skills or drafting tools to develop sketches and plans for an ag structure.** AGS 2.1
Examine various materials required for an agricultural structure. AGS 3	1 **Investigate the differences in materials needed to assemble an ag structure.** AGS 3.1
	2 **Demonstrate knowledge of structural materials by developing a supply list, along with cost estimates for a given project.** AGS 3.2
Construct an agriculture structure. AGS 4	1 **Assemble components of a structure.** AGS 4.1
	2 **Create a complete agriculture structure by combining individually constructed components.** AGS 4.2
Demonstrate electrical principles. AGS 5	1 **Explain basic electrical terms and principles.** AGS 5.1
	2 **Use applicable instruments to demonstrate knowledge of basic electricity.** AGS 5.2
	3 **Demonstrate wiring and electrical applications.** AGS 5.3
Analyze properties and conditions of building site prior to construction. AGS 6	1 **Explain legal land descriptions and plat maps.** AGS 6.1
	2 **Examine geographical characteristics of building site.** AGS 6.2
	3 **Understand and operate surveying equipment and/or GIS equipment.** AGS 6.3
Analyze various concrete an co	1 **Identify tools and materials used in concrete and masonry projects.** AGS 7.1
	ccurately mix concrete. AGS 7.2

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Explore career opportunities in agricultural structures and mechanics. AGS 8	1 **Investigate career opportunities that pertain to agricultural structures.** AGS 8.1
	2 **Develop soft skills to enhance employability.** AGS 8.2
Implement an individual project for career development through a Supervised Agriculture Experience/Work based Experience. AGS 9	1 **Develop an individual project plan with goals and timeline.** AGS 9.1
	2 **Explore opportunities within AFNR industries.** AGS 9.2
	3 **Apply concepts of financial management appropriate to agricultural projects and personal finances.** AGS 9.3
	4 **Develop and document knowledge and skills to ensure workplace safety regarding personal health and environmental management.** AGS 9.4
	5 **Research and analyze how public policy, laws, and advocacy impact agricultural systems and agricultural literacy.** AGS 9.5