South Dakota CTE

Advanced Ag Structures Technology (18407) (2022)

Use safe practices when planning, maintaining, and constructing agricultural structures. ADS 1	1	**Demonstrate safe use and knowledge of tools and equipment while constructing agricultural structures.** ADS 1.1
	2	**Demonstrate understanding of tool repair and maintenance.** ADS 1.2
	3	**Demonstrate workplace/worksite safety procedures and protocols.** ADS 1.3
Service and repair mechanical equipment and structures. ADS 2	1	**Analyze schematics to service various systems in an ag structure.** ADS 2.1
Utilize a structural plan that meets specifications and building codes. ADS 3	1	**Examine blueprints and local codes that identify required components of an ag structure.** ADS 3.1
	2	**Design a construction plan for an agricultural structure.** ADS 3.2
Use plans to guide construction of agricultural structures. ADS 4	1	**Use architectural and mechanical plans to construct agricultural buildings or facilities.** ADS 4.1
Apply a variety of concrete and masonry concepts to various projects. ADS 5	1	**Demonstrate concrete and masonry procedures.** ADS 5.1
Investigate a variety of plumbing tools and products. ADS 6	1	**Identify tools and materials used for plumbing.** ADS 6.1
	2	**Demonstrate various plumbing techniques.** ADS 6.2
Develop employability skills related to the Power, Structural, and Technical Systems Pa	1	**Develop soft skills to enhance employability.** ADS 7.1

Skip to main content

Implement an individual project for career development through a Supervised Agriculture Experience/Work based Experience. ADS 8

1. **Develop an individual project plan with goals and timeline.** ADS 8.1
2. **Explore opportunities within AFNR industries.** ADS 8.2
3. **Apply concepts of financial management appropriate to agricultural projects and personal finances.** ADS 8.3
4. **Develop and document knowledge and skills to ensure workplace safety regarding personal health and environmental management.** ADS 8.4
5. **Research and analyze how public policy, laws, and advocacy impact agricultural systems and agricultural literacy.** ADS 8.5