

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 and masonry concepts. AGS 7

- 1 Identify tools and materials used in concrete and masonry projects. AGS 7.1
- 2 Accurately mix concrete. AGS 7.2

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