

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/worksites 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