

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 Pathway. [ADS 7](#)

- 1 Develop soft skills to enhance employability. [ADS 7.1](#)

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](#)