

VT4435 – AGRICULTURAL STRUCTURES

Students will become proficient in arc and mig welding along with oxy-acetylene and wood working. Each student will build a project using woodworking or metalworking skills, agricultural building analysis, plumbing and concrete. They will develop a Supervised Agricultural Experience Program (SAEP) and continue leadership development through the FFA chapter.

Essential Learning Objectives

Students will:

- Demonstrate an understanding of the importance planning has on effective work procedure by drawing a construction plan and developing a plan of procedure, a cutting bill of materials, and a purchasing bill of materials.
- Apply principles of farm and homestead planning by devising a farmstead plan and explaining their design decisions in paragraph form.
- Demonstrate an understanding of correct building construction procedures by laying out joists and rafters, applying roofing skills, and answering questions about roofing materials.
- Apply principles of correct concrete construction procedures.
- Demonstrate an understanding of how to work with electricity and wiring.
- Demonstrate an understanding of plumbing equipment and procedures.
- Apply principles of correct fence installation by devising a fencing plan that complies with local codes and includes the materials used, cost, and layout of the fence.

Agriculture Structures Standards and Competency Profile:

<https://dese.mo.gov/sites/default/files/aged-instructional-framework-AgStructures.pdf>

<http://dese.mo.gov/college-career-readiness/career-education/agricultural-education/agricultural-education/agricultur-6>

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