

Agricultural Structures

Unit V — Electricity

Instructor Guide

The instructor should assign the performance-based assessment activity at the beginning of the unit. Students will work toward completing the activity as they progress through the unit lessons. The assessment activity will be due at the completion of the unit.

1. Emphasize the importance of following local building codes and zoning laws when working with wiring and electricity. Discuss relevant local building codes and zoning laws.
 - a. Information regarding building codes and zoning laws is available from local regulatory agencies, such as the planning and development department, public works department, and county board of commissioners.
 - b. General information about Missouri building codes and zoning laws is also available from the MU Extension, University of Missouri-Columbia, accessed January 17, 2012, from <http://muextension.missouri.edu/explore/agguides/>.
2. The student handout includes an activity that can be used to assess student performance. For this activity, students will diagram a wiring plan for a machinery shed using the appropriate symbols, identify sources of electrical grounding in the building, and complete a bill of materials for the project.
 - a. Provide each student with two, blank transparency sheets. Students will place the transparencies over the diagram of the machinery shed and develop their wiring plan in stages.
 - b. Provide students with dry-erase markers in assorted colors to add the fixtures, receptacles, switches, and wiring to the plan.
3. Have students turn in their completed activity sheets and transparencies. Answers will vary.
4. The final assessment score will be based on the overall content and presentation of the work.