

Division T

Woodworking & Electrical

Judging: Refer To The Schedule In Fair Paper

1. Read general rules.
2. All exhibits must have been the work of the current club year.
3. All exhibits must be entered by 11:00 a.m.

Woodworking

1. Articles refinished or built for a home environment project and exhibited as such cannot also be judged in the wood working division.
2. Entry card, plans and all other paperwork should be secured to the project in the manner. Tape is usually not adequate to accomplish this. It is recommended to use a zip-top plastic bag with a hole punched through it, using string to tie this to the exhibit.
3. The plan from which the exhibit was constructed must be with the article. The plan may be a photo-copy, the actual pattern, or a scale drawing. It must be complete and accurate to the extent that a duplicate article could be built using the plan as a guide. In addition, include a list and cost of materials, plus amount of time spent on constructing and finishing the article. This list should include all wood, hardware, finishing supplies, etc.

Class 390 - Article for farm or shop use.

Class 391 - Furniture for household or lawn use.

Class 392 - Other woodwork.

Articles not included in above classes. Example: bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops, etc.

Note:

Refinished /repaired furniture should be exhibited in Division R Home Improvement.

Class 393 - Single exhibit.

This area left blank on purpose please see page 2 & 3 for more rules.

4-H Energy Management

1. No hand-dipped solder may be used on electrical exhibits.
2. Electrical articles that have been in use should be cleaned for exhibit.
3. A sheet of operating instructions must be furnished for any electrical exhibit not self-explanatory.
4. Each electrical exhibit must be operable. If battery power is required, batteries must be furnished.
5. Any project with a complexity of size or electronics must have (a) instructions for assembly and use, and (b) equipment available at the time of judging of actual testing of the exhibit.
6. Each electrical exhibit must have a scorecard completed and attached securely. This scorecard is available from the Extension Office.

Class 396 - AC Electric projects:

Projects with a 110 or 120 Volt alternating current (AC) power source. Some project examples are household wiring demonstrations, small appliance extensions cords, trouble lights, indoor or outdoor wiring boards, or shop lights. Projects may be a restoration or original construction. The project must be operational and meet minimum safety standards. AC projects must be 110/120V, No 240V exhibits are allowed, and must be constructed such that the judges have wiring access to examine the quality and safety or workmanship.

Class 397 - DC Electric projects:

Projects with a battery or direct current power source. This class includes electric kits or original projects. This class also includes demonstration DC power projects. Examples include: wiring two or three-way switches, difference between series/parallel lighting circuits or wiring door-bell switches. All DC electric projects must include batteries supplied by 4-H'er. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.

Class 398 - Electronic projects.

Projects with a battery or direct current power source. This class includes power source. This class includes electronic kits or original projects. Examples include radios, telephone, toy robots, light meters, security systems, etc. May be constructed using printed circuit board, wire wrap, or bead-board techniques. Include instructions / assembly manual if from a kit. Include plans if an original project. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.

Class 399 - Educational Displays and Exhibits.

This class includes any educational displays, exhibits or science fair projects which DO NOT have a power source i.e. Exhibits, posters, or displays of wire type conduit type, electrical safety, too or motor parts identification or electrical terminology. Educational displays and exhibits must be legible from a distance of four feet, using a maximum tri-fold size of 3'X4'.

Small Engines

1. All exhibits should involve engines smaller than 20 horsepower for classes.
2. Displays are limited to 4' wide and 4' deep - both upright and floor displays.

Class 399-A - Display

Exhibit a display, selecting one of the following options:

- 1) a display identifying different engine or lawn and garden equipment part or a display showing the function of the various engine or lawn and garden equipment parts.
- 2) A display identifying and explaining the function(s) of different special tools needed for small engine work.
- 3) A display illustrating and providing the results of anyone or experiments that are included in the project books. No complete engines, lawn tractors, tillers, or chainsaws are permitted for display. Maximum tri-fold size is 3'X4"

Class 399-B - Maintenance

Exhibit a display that illustrates either

- 1) Routine maintenance procedures 9R
- 2) Diagnosing and troubleshooting specific problems in an engine. No complete engines, lawn tractors, tillers, or chainsaws are permitted for display. Maximum tri-fold size is 3'X4"

Class 399-C - Operation -

Exhibit an operable small engine (no more than 20HP) overhauled or rebuilt by the member. Include maintenance schedule for the engine and a brief description of steps taken by the members over-hauling or rebuilding the engine. Maximum tri-fold size 3'X4'. Engine should contain no fuel in tank or carburetor.

Alternative Energy

A form of energy derived from a natural source, such as the sun, geothermal, wind tides, or waves.

1. All exhibits in this division are limited in size to standard, tri-fold, display boards (36"X48") and items may not extend beyond 12" from the back board. All displays must be self standing.

Class 399-D - Education Display

Create an exhibit that addresses a focused topic related to power generated from a renewable energy source. The purpose of the exhibit is to inform and create awareness.

Class 399-E - Experiment

Display an experiment addressing a problem or question related to power generated from a renewable energy source. Include hypothesis, background research, variables, a control, data, findings, conclusions, and recommendations for future study.