

Junior Division – Grades 3 -7
Senior Division – Grades 8 – 12

Ag Tractor Project Outline:

Objectives of Project:

1. To acquaint and improve operator’s knowledge of tractor safety.
2. To improve operator’s knowledge of tractor maintenance.
3. To improve tractor driving skills.

Requirements:

1. Attend county tractor workshop meetings
2. Complete assigned work sheets and activities
3. Participate in tractor contest: parts identification, quiz, and drive obstacle course.
 - a. Juniors – tractor and 2-wheel trailer OR display safety poster
 - b. Seniors – tractor and 4-wheel trailer OR display safety poster
4. If you are unable to participate in #3, then complete one of the following exhibits:
 - a. Poster – 22”x 28”, displayed horizontally, with a stiff backing, and covered in clear plastic.
 - b. Notebook report
 - c. Display board: display boards differ from a poster in that real objects are normally used rather than drawings or pictures. Three dimensional items are attached to the board.
 - d. Action demonstration

Note: The subject matter content for the exhibit must correspond to the subject matter found in:

Level A (Grades 3 – 4) – subject matter found in Level A manual

Level B (Grades 5 – 6) – subject matter found in Level A and B manuals.

Level C (Grades 7 – 9) – subject matter found in Level A, B, and C manuals.

Level D (Grades 10 -12) – subject matter found in Level A, B, C, and D

Lawn & Garden Tractor Project Outline:

Objectives of project:

1. To learn lawn and gardening safety
2. To learn proper maintenance of small engines and lawn equipment
3. To learn a working knowledge of lawn equipment and lawn care.

Requirements:

1. Attend county tractor workshop meetings
2. Complete assigned worksheets and activities
3. An educational display of worn parts, etc. caused by improper care
4. Give a 4-H lawn and garden demonstration
5. Participate in lawn tractor contest: quiz, parts identification, obstacle course
 - a. Juniors – drive the course
 - b. Seniors – forward and backward through the course



Welding

Judging - Thursday, July 2, at 3pm at the Fairgrounds; Home & Family Arts Building.
No State Fair Exhibit



Contact project leader Bob Ferguson at bobbysixguns@gmail.com or Ed Burbank at ed_burbank@yahoo.com for more information about the welding project!

**Please also refer to the Policies and Procedures beginning on page 2 and the General Project Rules on page 20.*

Objectives

- To learn about different methods of welding and what materials are best suited for each type of welding.
- To acquire a working knowledge of the machines and equipment used in the building trade.
- To know the safety procedures and practices involving the equipment used.
- To understand the proper care and maintenance of welding equipment and accessories.
- To obtain a working knowledge of equipment and accessories in a modern workshop.
- To acquire knowledge of the techniques involved in arc and gas welding and oxygen cutting.
- To be familiar with the terms and definitions of welding.

Exhibits

- Each division will have a champion and reserve champion. One overall grand and reserve grand champion will be chosen.
- At their initial workshop, members will complete a combined safety/skills test to determine their starting level. After being placed in a division, you will remain in that division for a maximum of four years before advancing to the next division. Annual reevaluation of skills and comfort level may be conducted to make advancement recommendations.
- Those members not able to attend workshops must start as division 1 and may remain in that division for a maximum of four years before advancing to division 2.
- All metal must have burrs removed and a protective finish to prevent rust: oil or paint.

Techniques to be taught

- Safe practices; safety in welding, clothing, gloves, shoes, helmet, jacket.
- Basic skills: striking an arc, running a bead, setting heat range, learning electrodes and current flow, etc.
- Use of measurement and cutting tools, other fabrication techniques.
- Joint preparation (using a grinder).
- Out-of-position welding.
- Multiple fillet welds.
- Flame cutting and learning the parts, safety, igniting and stopping a cutting torch.

Workshops

- Workshop attendance is encouraged, but not required
- Workshops will be conducted using MIG welders, other types of welders are allowed.

Division I - Beginner

Exhibit one of following:

- A poster illustrating a butt weld, lap weld and a tee-weld in the flat position
- One of the following projects from the Arcs and Sparks publication
 - Boot scraper
 - Post Driver
 - Hammer/jig

DIVISION II - Intermediate

Exhibit one of following:

- Exhibit a poster illustrating the four welding positions (flat, horizontal, overhead and vertical)
- One of the following projects from the Arcs and Sparks publication
 - Christmas Tree Stand

- Shelf with bracket
- Electrode Holder

DIVISION III - Advanced

Exhibit one of the following

- A poster illustrating a detailed welding blueprint
- One of the following from the Arcs and Sparks publication
 - Welding Table
 - Pedestal

One or more items of your own creation, which include a welding blue print.



Woodworking

Judging - Thursday, July 2, at 3pm at the Fairgrounds; Shrine Building.
1 champion from each level to State Fair

**Please also refer to the Policies and Procedures beginning on page 2 and the General Project Rules on page 20.*

When making a wood article, use suitable materials and finishes. For example, if you are making an item that will be outside, it should be made of treated wood or be painted or varnished to protect it against the weather.

Level 1 (Grades 3-4)

Exhibit one of the following:

1. Exhibit one article of choice made during the current 4-H program year demonstrating a minimum of five (5) techniques outlined in the Indiana 4-H Woodworking Tools, Techniques and Skills Chart 4-H 6875C-W. Exhibits may also include higher level techniques that have been mastered. Any higher level techniques will not be counted as part of the minimum five, but nevertheless will be evaluated for quality. A woodworking skills sheet is to be submitted with the exhibit for judging.
2. A poster on any topic covered in the Level 1 manual.

Level 2 (Grades 5-6)

Exhibit one of the following:

1. Exhibit one article of choice made during the current 4-H program year demonstrating a minimum of five (5) techniques outlined in the Indiana 4-H Woodworking Tools, Techniques and Skills Chart, 4-H 6875C-W. Exhibits may also include lower and/or higher level techniques that have been mastered. Any lower/higher level techniques will not be counted as part of the minimum five, but nevertheless will be evaluated for quality. A woodworking skills sheet is to be submitted with the exhibit for judging.
2. A poster on any topic covered in the Level 2 manual.

Level 3 (Grades 7-9)

Exhibit one of the following:

1. Exhibit one article of choice made during the current 4-H program year demonstrating a minimum of five (5) techniques outlined in the Indiana 4-H Woodworking Tools, Techniques and Skills Chart, 4-H 6875C-W. Exhibits may also include lower and/or higher level techniques that have been mastered. Any lower/higher level techniques will not be counted as part of the minimum five, but nevertheless will be evaluated for quality. A woodworking skills sheet is to be submitted with the exhibit for judging.
2. A poster on any topic covered in the Level 3 manual.