

# DEPT 24 – MECHANICAL PROJECTS

Premiums Except Class A: Blue (2.00) Red (1.75) White (1.50) Pink (1.25)

## General Rules

1. All posters must not exceed 14" x 22". All items on exhibits/posters/displays must be named or labeled

### Class A – Tractor Maintenance

#### Exhibit Suggestions (but not limited to):

Tractor Safety; Different kinds of nuts, bolts, screws, etc on farm machinery; damaged parts caused by poor maintenance; chart on lubrication; proper care & adjustments, etc.

Lot No

1. Exhibit made by member
2. Exhibit made by member
3. Exhibit made by member
4. Exhibit made by member

#### Reserve Champion & Champion Tractor Maintenance – Ribbon

### Class B – Tractor Restoration

#### Rules:

1. Exhibitor must have exhibit in place and checked in with judge at Cloverbud/Explorer Building by 5 p.m. Judging will start at 5 p.m.

Lot No

1. Exhibit made by member
2. Exhibit made by member
3. Exhibit made by member
4. Exhibit made by member
5. Exhibit made by member

#### Reserve Champion & Champion Tractor Maintenance – Ribbon

### Class C – Small Engine

#### Rules:

1. Open to exhibitors enrolled in Small Engines in the appropriate unit.
2. Exhibit suggestions: identification of parts, steps in service job, preparing engine for off season storage, safety, show diagram of one of the systems (fuel, lubrication, ignition), events in an engine, carburetor parts with explanation of function, prevention maintenance, ignition system, maintains your mower, compare and purchase, etc.

Lot No

1. Exhibit by member
2. Exhibit by member
3. Exhibit by member
4. Exhibit by member

#### Reserve Champion & Champion Small Engine – Ribbon

### Class D – Handyman

#### Rules:

1. Open to members enrolled in the Maintenance/Repair project.
2. Exhibit Suggestions: Any exhibit restored, repaired, or refinished by member

Lot No

1. Exhibit made by member
2. Exhibit made by member
3. Exhibit made by member
4. Exhibit made by member

#### Reserve Champion & Champion Handyman – Ribbon

### Class E – Metal Fabrication

#### Rules:

1. Open to members enrolled in Metal Fabrication project (Welding).

Lot No

1. Exhibit made by member
2. Exhibit made by member
3. Exhibit made by member
4. Exhibit made by member

#### Reserve Champion & Champion Metal Fabrication – Ribbon

#### Reserve Grand Champion & Grand Champion Mechanical Project – Rosette (Class B – F)

### Class F – Aerospace

#### Rules:

1. Open to members enrolled in Aerospace or Model Rocket project.
2. Batteries must be removed from exhibit.

#### Lot No

1. Exhibit made by member
2. Exhibit made by member
3. Exhibit made by member
4. Exhibit made by member

#### Reserve Champion & Champion Aerospace – Ribbon

### Class G – Models (Auto & Other)

#### Exhibit Suggestions:

Self-made model, model from a kit, customized model.

#### Lot No

1. Exhibit made by member
2. Exhibit made by member
3. Exhibit made by member
4. Exhibit made by member

#### Reserve Champion & Champion Models – Ribbon

### Class H – Building Skills (Legos, Knex, etc)

#### Rules:

1. Open to members enrolled in Building Skills project. Any toy building system may also be used.
2. Kits may be used but **must include designs or plans from the kit.**
3. Original designs should include any drawings, designs or plans **if** they were a part of the project, if exhibitor did not use the above he/she should be able to explain how they created it and/or came up with the idea.
4. For safety of the project exhibit **must be** displayed on a board **not larger than 20" x 20"**.
5. **Each exhibit must be a different structure (example: vehicle, aircraft, building, scene, etc.)**

#### Lot No

1. Exhibit made by member Grade 4-7
2. Exhibit made by member Grade 4-7
3. Exhibit made by member Grade 4-7
4. Exhibit made by member Grade 8-13
5. Exhibit made by member Grade 8-13
6. Exhibit made by member Grade 8-13

#### Reserve Champion & Champion Building Skills – Ribbon

### Class I – Robotics

#### Rules:

1. Open to members enrolled in Robotics project.
2. Exhibit suggestions: program a figure 8, navigate a maze, robot multi task, play a game, build your own robot, etc

#### Lot No

1. Exhibit made by member
2. Exhibit made by member
3. Exhibit made by member
4. Exhibit made by member

#### Reserve Champion & Champion Robotics – Ribbon

#### Reserve Grand Champion & Grand Champion Mechanical Project – Rosette (Class G – J)