

## SUGGESTED COUNTY FAIR CLASSES

### TRACTOR CURRICULUM

The following list provides ideas for developing county fair Tractor classes, based on the latest 4-H curriculum.

#### LEVEL A: STARTING UP – GETTING TO KNOW YOUR TRACTOR

1. Display: tractor operator's manual
2. Display: tractor parts
3. Poster: tractor safety features
4. Display: types of nuts, bolts, and screws
5. Poster: how to start and stop a tractor
6. Poster: safety hazards when operating a tractor
7. Display: role of ROPS (rollover protective structures)
8. Poster: hand signals
9. Poster: machine hazards
10. Poster: types of fire extinguishers
11. Completed member guide (4H961)

#### LEVEL B: TRACTOR OPERATION – GEARING UP FOR SAFETY

1. Poster: general farm safety rules
2. Poster: PTO (power-take-off) safety
3. Display: causes of tractor rollovers
4. Display: how to prevent tractor rollovers
5. Poster: hand signals on the road
6. Display: maintenance checks before operating a tractor
7. Poster: types of tractor fuel
8. Display: types and functions of tractor systems
9. Poster: recycling tractor batteries and oil
10. Completed member guide (4H962)

#### LEVEL C: MOVING OUT – LEARNING MORE ABOUT YOUR TRACTOR AND FARM MACHINERY

1. Poster: flowing grain hazards
2. Display: how to safely hitch and unhitch implements
3. Poster: hydraulic systems compared
4. Poster: mower safety
5. Display: how to use conveyors and augers safely
6. Poster: cooling system safety
7. Poster: hydraulic system and fuel safety
8. Poster: cetane and octane compared
9. Display: tractor maintenance log
10. Poster: battery types, functions, and care
11. Poster: oil viscosity and classification
12. Poster: types of oil systems
13. Poster: servicing oil, fuel, and hydraulic filters

14. Poster: engine air requirements
15. Display: types of air filters
16. Completed member guide (4H963)

#### LEVEL D: LEARNING MORE – LEARNING MORE ABOUT AGRICULTURAL TRACTORS AND EQUIPMENT

1. Display: towing safety
2. Poster: pesticide safety
3. Display: types and functions of belts and chains
4. Poster: wheel bearings and seals
5. Poster: how to winterize your tractor
6. Display: tractor monitors and gauges
7. Poster: functions of clutch and brake systems
8. Exhibit: basics of the tractor engine
9. Display: spark plug types and maintenance
10. Poster: alternator and generator compared
11. Display: changing an air filter
12. Poster: cleaning and maintaining a radiator
13. Poster: mechanics of a transmission
14. Poster: using front-end and skid-steer loaders safely
15. Poster: adding ballast to a tractor
16. Report: cost of tractor operation
17. Completed member guide (4H964)