

AG MECHANICS STEM

Dept. AM

4-H members must be currently enrolled in the Kansas 4-H STEM Ag Mechanics (welding) project to exhibit in this division. Exhibits must have been constructed or repaired during the current 4-H year.

1. Each exhibitor may enter one exhibit per class.
2. 4-H members enrolled in 4-H STEM Ag Mechanics for updated County and State Fair guidelines please contact the extension office.

Classes Introductory – Level 1 (about 1-3 years' experience)

This level is designed for youth with little to no exposure in the project area so that they can gain an understanding of basic principles and methods in the given area.

5550 – Welding Display Board. A 3'x3' display board with different pieces of metal attached, illustrating different types of welds, each weld being labeled.

5551 - Level 1 Welding Ag Repair. Repair of ag equipment with welding.

5552 - Level 1 Welding Ag Fabrication. Creation of new equipment with welding.

5553 - Level 1 Welding General Repair. Repair of non-ag equipment with welding.

5554 - Level 1 Welding General Fabrication. Creation of non-ag equipment with welding.

5555 - Level 1 Welding Artistic Fabrication. Creation of artistic or interpretive pieces with welding.

5556 - Level 1 Brazing Repair.

5557 - Level 1 Brazing Fabrication.

5558 - Level 1 Smithing Display Board. A 3'x3' display board with different pieces of forged metal attached, illustrating different forms, each form being labeled.

5559 - Level 1 Smithing. A design forged with at least one formed element (twists or spirals for example).

Champion and Reserve Champion Level 1

Experienced – Level 2 (about 4-6 years' experience)

This level is designed for youth with some experience in the project area allowing them to expand on common principles and methods in the given area.

5560 – Level 2 Welding Ag Repair. Repair of ag equipment with welding.

5561 – Level 2 Welding Ag Fabrication. Creation of new ag equipment with welding.

5562 – Level 2 Welding General Repair. Repair of non-ag equipment with welding.

5563 – Level 2 Welding General Fabrication. Creation of non-ag equipment with welding.

5564 – Level 2 Welding Artistic Fabrication. Creation of artistic or interpretive pieces with welding.

5565 – Level 2 Brazing Repair.

5566 – Level 2 Brazing Fabrication.

5567 – Level 2 Smithing. A design forged with at least two different formed elements (twists and spirals for example).

Champion and Reserve Champion Level 2

Advanced – Level 3 (about 7-9 years' experience)

This level is designed for youth with vast experience in the project area allowing them to master common principles and methods and expand on advanced techniques in the given area.

5570 – Level 3 Welding Ag Repair. Repair of ag equipment with welding.

5571 – Level 3 Welding Ag Fabrication. Creation of new ag equipment with welding.

5572 – Level 3 Welding General Repair. Repair of non-ag equipment with welding.

5573 – Level 3 Welding General Fabrication. Creation of non-ag equipment with welding.

5574 – Level 3 Welding Artistic Fabrication. Creation of artistic or interpretive pieces with welding.

5575 – Level 3 Brazing Repair.

5576 – Level 3 Brazing Fabrication.

5577 – Level 3 Smithing. A design forged with at least three different formed elements (twists, spirals, and bulbs for example).

Champion and Reserve Champion Level 3

Master – Level 4 (10 or more years' experience)

This level is designed for youth with substantial experience in the project area allowing them to master advanced techniques in the given area.

5580 – Level 4 Welding Ag Repair. Repair of ag equipment with welding.

5581 – Level 4 Welding Ag Fabrication. Creation of new ag equipment with welding.

5582 – Level 4 Welding General Repair. Repair of no-ag equipment with welding.

5583 – Level 4 Welding General Fabrication. Creation of non-ag equipment with welding.

5584 – Level 4 Welding Artistic Fabrication. Creation of artistic or interpretive pieces with welding.

5585 – Level 4 Brazing Repair.

5586 – Level 4 Brazing Fabrication.

5587 – Level 4 Smithing. A design forged with at least four different elements (twists, spirals, and bulbs for example).

Champion and Reserve Champion Level 4