

## Dayton FFA Livestock Show- Ag Mechanics Critique Sheet

Exhibitor Name: \_\_\_\_\_

Project Description: \_\_\_\_\_

Evaluation Criteria	E=Excellent G=Good NI=Needs Improvement
<p><b>Workmanship (30pts)</b></p> <ul style="list-style-type: none"> <li>● Square- Diagonals &amp; Square</li> <li>● Weld Quality- Uniform bead profile, feathering, good penetration,</li> <li>● Fabrication- Good joints and fit-up.</li> <li>● Weld Grinding- excessive or lack of proper grinding, sharp corners.</li> <li>● Paint Prep &amp; Finish- slag and buckshot removal, no body filler, uniform paint coating with no runs.</li> </ul>	<p>_____ Square &amp; True</p> <p>_____ Weld Quality</p> <p>_____ Fabrication- Metal Cutting and drilling</p> <p>_____ Grinding (leave beads if possible)</p> <p>_____ Paint Prep &amp; Finish</p> <p style="text-align: right;"><b>Points Earned</b> _____</p>
<p><b>Design (30pts)</b></p> <ul style="list-style-type: none"> <li>● Dimensions consistent with drawing.</li> <li>● Materials- over or undersized for the load.</li> <li>● Fasteners- screws and bolts coating compatible with treated lumber.</li> <li>● Design Principles- gussets and braces.</li> <li>● Practicality and functionality.</li> </ul>	<p>_____ Dimensions</p> <p>_____ Materials</p> <p>_____ Fasteners</p> <p>_____ Design</p> <p>_____ Practicality</p> <p style="text-align: right;"><b>Points Earned</b> _____</p>
<p><b>Documentation (10pts)</b></p> <ul style="list-style-type: none"> <li>● Table of contents and page numbers</li> <li>● Drawing- to scale, dimensioned, complete enough to build from.</li> <li>● Bill of materials including OC and PE costs.</li> <li>● Photos- sequenced work in progress and labeled.</li> <li>● Research- ASABE standards, DOT info, PI and SDS sheets, and trailer components specifications.</li> </ul>	<p>_____ Organization- Table of Contents</p> <p>_____ Drawing</p> <p>_____ Bill of Materials</p> <p>_____ Photographs</p> <p>_____ Research</p> <p style="text-align: right;"><b>Points Earned</b> _____</p>

Evaluation Criteria	E=Excellent G=Good NI=Needs Improvement
<p><b>Knowledge Presentation (20pts)</b></p> <ul style="list-style-type: none"> <li>• Knowledge of manufacturing processes and materials.</li> <li>• Presentation- Speaking ability and presentation to judges, entry and display.</li> </ul>	<p>_____ Technical Knowledge</p> <p>_____ Presentation &amp; Entry Card Displayed</p> <p style="text-align: right;"><b>Points Earned</b> _____</p>
<p><b>Difficulty (5pts)</b></p> <ul style="list-style-type: none"> <li>• Size, scope, complexity- use of several skills and processes.</li> <li>• Sophistication- intricate, technical and more difficult to build.</li> </ul>	<p>_____ Size and Scope</p> <p>_____ Sophistication</p> <p style="text-align: right;"><b>Points Earned</b> _____</p>
<p><b>Safety (5pts)</b></p> <ul style="list-style-type: none"> <li>• Safe work environment shown in photos</li> <li>• Safe projects- good smooth joints and fit-up</li> <li>• Project displayed safely- sharp points and edges protected.</li> <li>• Electrical- extension cords, appliances, video display and computers.</li> </ul>	<p>_____ Safety Depicted in Photos</p> <p>_____ Safe Project</p> <p>_____ Project Display</p> <p>_____ Electrical</p> <p style="text-align: right;"><b>Points Earned</b> _____</p>

**Total Points Awarded** \_\_\_\_\_

Notes: \_\_\_\_\_

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