### Student's Name

Evaluate the trainee using the rating scale below and check the appropriate number to indicate the degree of competency achieved. The numerical ratings of 3, 2, 1, and 0 are not intended to represent the traditional school grading system of A, B, C, D, and F. The descriptions associated with each of the numbers focus on level of student performance for each of the tasks listed below.

**Rating Scale:**
- **0 - No Exposure** - no information nor practice provided during training program, complete training required.
- **1 - Exposure Only** - general information provided with no practice time, close supervision needed and additional training required.
- **2 - Moderately Skilled** - has performed independently during training program, limited additional training may be required.
- **3 - Skilled** - can perform independently with no additional training.

### INTRODUCTION TO AGRICULTURAL MECHANICS  
**AG 0130**

1. Number of Competencies Evaluated
2. Number of Competencies Rated 2 or 3
3. Percent of Competencies Attained (2/1)

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**Grade**

Instructor Signature  Date

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<tr>
<th>Task</th>
<th>0</th>
<th>1</th>
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<tr>
<td>03.0</td>
<td>03.01 Identify hot metal working tools by type and use</td>
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<td>03.02 Read metal working plans</td>
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<td>03.03 Identify safe practices for metal striking and machine tools</td>
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<td>03.04 Determine tap drill sizes</td>
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<td>03.05 Use files and saw blades</td>
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<td>03.06 Join metal by riveting</td>
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<td>03.07 Cut threads with tap and die</td>
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<td>04.0</td>
<td>04.01 Select abrasive for use in grinding and sharpening</td>
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<td>04.02 Prepare grinding and sharpening equipment</td>
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<td>04.03 Identify appropriate shapes and angles of cutting edges for wood and metal cutting tools</td>
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<td>04.04 Identify safe practices for using keen edge tools and grinding equipment</td>
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<td>04.05 Sharpen common hand tools</td>
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<td>05.0</td>
<td>05.01 Identify plumbing by type</td>
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<td>05.02 Select pipe threading and cutting tools</td>
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<td>05.03 Select types of pipe and tubing for specific jobs</td>
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<td>05.04 Calculate length of pipe required to complete a project</td>
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<td>05.05 Assemble plastic pipe</td>
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<td>05.06 Thread steel pipe</td>
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<td>05.07 Connect flare and compression fittings</td>
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<td>05.08 Sweat solder copper fittings</td>
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</table>
06.0  Rope Work
The student will be able to:

0 1 2 3
06.01 List the uses of rope
06.02 Demonstrate how to tie basic knots
06.03 Construct a rope halter

07.0  Fence Construction
The student will be able to:

0 1 2 3
07.01 Design and lay out fences
07.02 Identify types of fencing
07.03 Discuss construction principles of fences
07.04 Demonstrate proper procedure in maintaining and repairing fences

08.0  Painting
The student will be able to:

0 1 2 3
08.01 Select types of paints and painting equipment
08.02 Prepare surfaces to be painted
08.03 Apply paint properly
08.04 Demonstrate safety, maintenance and clean-up procedures

09.0  Basic Electricity
The student will be able to:

0 1 2 3
09.01 Understand the National Electrical Code requirements for wiring; especially for harsh environments found in agricultural processing, livestock and poultry confinement areas
09.02 Describe the relationship of volts, amps, and ohms in terms of Ohm's Law
09.03 Plan an electrical circuit
09.04 Determine electrical power requirements
09.05 Read the kilowatt hour meter
09.06 Identify the function of overcurrent and ground fault protection
09.07 Measure electrical circuits for voltage, current flow, resistance, and wattage
09.08 Install electrical circuits
09.09 Trouble-shoot electrical circuits

10.0  Tool Identification
The student will be able to:

0 1 2 3
10.01 Properly identify and safely use common hand tools
10.02 Properly identify and safely use common power tools

11.0  Basics of Welding
The student will be able to:

0 1 2 3
11.01 Identify and follow safe practices in arc welding
11.02 Evaluation of arc welding machines
11.03 Select various sizes and types of electrodes
11.04 Prepare equipment and materials for arc welding
11.05 Demonstrate ability to weld with an arc welding machine
11.06 Identify and follow safe practices used in gas welding
11.07 Properly assemble gas welding and cutting equipment
11.08 Light and adjust the torch flame for specific welding and/or cutting operations
11.09 Demonstrate ability to oxy-acetylene weld and cut