

Student's Name _____

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|----------------------|---|
| Directions: | 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. |

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|---|-------|
| 1. Number of Competencies Evaluated | _____ |
| 2. Number of Competencies Rated 2 or 3 | _____ |
| 3. Percent of Competencies Attained (2/1) | _____ |
| _____ | _____ |
| Grade | |
| _____ | _____ |
| Instructor Signature | Date |

01.0 Safety

The student will be able to:

0 1 2 3

- 01.01 Define safety procedures for laboratory equipment
- 01.02 Describe the safe use of laboratory tools
- 01.03 Identify rules of basic laboratory safety
- 01.04 Apply safety while working in the laboratory

02.0 Hot Metal Working

The student will be able to:

0 1 2 3

- 02.01 Identify the procedure for shaping, hardening, and tempering common tools
- 02.02 Select soldering equipment and tools
- 02.03 Prepare metals for soldering
- 02.04 Solder sheet metal joints, seams, and electrical connections

03.0 Cold Metal Working

The student will be able to:

0 1 2 3

- 03.01 Identify hand metal working tools by type and use
- 03.02 Read metal working plans
- 03.03 Identify safe practices for metal striking and machine tools
- 03.04 Determine tap drill sizes
- 03.05 Use files and saw blades
- 03.06 Join metal by riveting
- 03.07 Cut threads with tap and die

0 1 2 3

- 03.08 Layout holes and drill holes using a twist drill
- 03.09 Operate power tools
- 03.10 Bend sheet and strap metal to angles and/or shapes

04.0 Tool Reconditioning and Maintenance

The student will be able to:

0 1 2 3

- 04.01 Select abrasive for use in grinding and sharpening
- 04.02 Prepare grinding and sharpening equipment
- 04.03 Identify appropriate shapes and angles of cutting edges for wood and metal cutting tools
- 04.04 Identify safe practices for using keen edge tools and grinding equipment
- 04.05 Sharpen common hand tools

05.0 Plumbing

The student will be able to:

0 1 2 3

- 05.01 Identify pipe fittings by type
- 05.02 Select pipe threading and cutting tools
- 05.03 Select types of pipe and tubing for specific jobs
- 05.04 Calculate length of pipe required to complete a project
- 05.05 Assemble plastic pipe
- 05.06 Thread steel pipe
- 05.07 Connect flare and compression fittings
- 05.08 Sweat solder copper fittings

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