CHERRYVALE HIGH SCHOOL
OCCUPATIONAL PROFILE

Advanced Agricultural Mechanics

Name_____ SS#_____
School_____ Instructor_____

Rating Scale: 3- Skilled – Works independently
2- Limited Skill- Requires assistance to perform task
1- Skill undeveloped- received instruction but has not developed skill
0- No exposure – No instruction or training in this area.

Directions - Circle the appropriate number to indicate the degree of competency reached

S = Science M = Math L = Language Arts C = Career Development Skills

Enrollment Date ___/___/____	Completion Date ___/___/___	Hours Completed _____

I certify that the student received training in the areas indicated

Student Signature _____ Date _____

Instructor Signature _____ Date _____

Administrator Signature _____ Date _____

I. Career Orientation
3 2 1 0 1.Compile career opportunities in Ag Mechanics
3 2 1 0 2.Determine education levels for various careers
3 2 1 0 3.Identifies resource people for obtaining career assistance in agriculture

II. Safety in Welding Fabrication
3 2 1 0 1.Keep the shop/work area clean and orderly
3 2 1 0 2.Operate a fire extinguisher
3 2 1 0 3.Use appropriate guard shields
3 2 1 0 4.Demonstrate proper handling of cylinders
3 2 1 0 5.Demonstrate proper use of ventilation
3 2 1 0 6.Administer basic first aid
3 2 1 0 7.Identify hazardous conditions S
3 2 1 0 9.Follow safety procedures according to operators manuals
3 2 1 0 10.Follow safety procedures during lifting
3 2 1 0 11.Observe safety color codes
3 2 1 0 12.Use proper protective clothing

III. Caring for Hand Tools
3 2 1 0 1.Identify tools
3 2 1 0 2.Recognize unserviceable hand tools
3 2 1 0 3.Maintain hand tools
3 2 1 0 4.Prevent rust
3 2 1 0 5.Remove rust
3 2 1 0 6.Replace handles

IV. Caring for Power Tools
3 2 1 0 1.Perform maintenance and operation of tools C
3 2 1 0 2.Operate and maintain mig welders
3 2 1 0 3.Cut metal with power tools C
3 2 1 0 4.Drill holes with power tools
3 2 1 0 5.Grind metal

V. Working with Metal
3 2 1 0 1.Identify metals
3 2 1 0 2.Use squaring tools M
3 2 1 0 3.Mark metal M
3 2 1 0 4.Measure metal M
3 2 1 0 5.Cut metal
3 2 1 0 6.Bend metal
3 2 1 0 7.Shape metal
3 2 1 0 8.Join metal M
3 2 1 0 9.Drill holes

VI. Using Oxy-Acetylene Equipment
3 2 1 0 1.Observe safety practices when operating oxy-acetylene equipment
3 2 1 0 2.Set up equipment for welding, cutting, heating and brazing
3 2 1 0 3.Join metal by brazing SC
3 2 1 0 4.Make a 90 degree cut MC
3 2 1 0 5.Cut a hole
3 2 1 0 6.Cut tubing
3 2 1 0 7.Weld a flat butt joint C
3 2 1 0 8.Weld a T-joint C
3 2 1 0 9.Weld a lap joint C

VII. Using Arc Welding Equipment
3 2 1 0 1.Observe safety practices when using arc welding equipment
3 2 1 0 2.Set up equipment for welding M
3 2 1 0 3.Weld a square butt joint in the vertical position
3 2 1 0 4.Weld a square butt joint in the horizontal position C
3 2 1 0 5.Weld a T joint in the horizontal position
3 2 1 0 6.Weld a T joint in the vertical position C
3 2 1 0 7.Weld a lap joint in the flat position
3 2 1 0 8.Weld a lap joint in the horizontal position
3 2 1 0 9.Weld a lap joint in the vertical position C

VIII. Using MIG Welding Equipment
3 2 1 0 1.Observe safety practices
3 2 1 0 2.Set up equipment M
3 2 1 0 3.Weld square butt joint in all positions C
3 2 1 0 3.Weld square tee joint in all positions C
3 2 1 0 3.Weld square lap joint in all positions C
3 2 1 0 4.Weld pipe tee joints

IX. Using Plasma Arc Torch
3 2 1 0 1.Observer safety practices
3 2 1 0 2.Maintain equipment
3 2 1 0 3.Set up equipment M

3 2 1 0 4.Cut sheet metal

X. Planning for Construction

3 2 1 0 1.Sketch a plan
3 2 1 0 2.Prepare a bill of materials L
3 2 1 0 3.Estimate costs of materials M
3 2 1 0 4.Read a blueprint M

XI. Employment

3 2 1 0 1.Fill out a job application L
3 2 1 0 2.Recognize positive job characteristics L
3 2 1 0 3.Demonstrate a job interview L
3 2 1 0 4.Prepare job interview questions L
3 2 1 0 5.Create a personal resume L

XII. FFA Leadership

3 2 1 0 1.Demonstrate skills needed for participation in Ag Mechanics CDE C
3 2 1 0 2.Submit award applications L
3 2 1 0 3.Promote community service
3 2 1 0 4.Participate in FFA meetings

XIII. SAE

3 2 1 0 1.Demonstrate good money management M
3 2 1 0 2.Create self confidence L
3 2 1 0 3.Develop competencies for work
3 2 1 0 4.Provide record keeping skills M
3 2 1 0 5.Exhibit ability to work and relate well with others L

XIIII. Plasma Cam

3 2 1 0 1.Lay out Parts on the Cutting Table
3 2 1 0 2.Adjusting the Machine Settings
3 2 1 0 3.Coordinate points on screen
3 2 1 0 4.Select Paths in the Drawing
3 2 1 0 5.Detect Intersections