**Gas Metal Arc Welding \*TEST\***

Refer to: Topic 8. Miller Process Training Series “Gas Metal Arc Welding”

1. Every electrical circuit is made up of what three things?
   1. amperage, voltage, and resistance
   2. electrons, protons, and molecules
   3. voltage, amperage, and amperes
   4. amperage, voltage, and gas
2. What is “duty cycle”?
   1. a measure of amps
   2. a tool used to determine how a machine can perform for a specific job
   3. a unit of measure used to determine voltage
   4. military terms adopted by the welding industry
3. Which of the following could be caused by an eroded contact tip?
   1. gas flow problems
   2. arc instability
   3. melt through
   4. all of the above
4. When should you replace a GMAW gun liner?
   1. switch electrode size
   2. when it’s kinked
   3. when it’s blocked
   4. all of the above
5. What is Ohm’s law?
   1. increasing the wire feed speed increases amperage
   2. increasing the voltage increases the amperage
   3. increasing the wire feed speed decreases the amperage
   4. increasing the wire feed speed decreases the amperage
6. What is a good “rule of thumb” to use to set the wire feed speed?
   1. 2 amperes for every 0.001 in.
   2. 1 ampere for every 0.001 in.
   3. 5 amperes for every 0.001in.
   4. 10 amperes for every 0.001 in.
7. What does voltage have the greatest effect on while you’re welding?
   1. angle of weld bead
   2. height of weld bead
   3. width of weld bead
   4. height and width of weld bead
8. When is short circuit transfer commonly used?
   1. you can weld thin and thick metals in any position
   2. it’s easy to set up
   3. it produces a very clean weld
   4. it’s cost effective
9. What are the two most common types of shielding gas?
   1. argon and oxygen
   2. oxygen and carbon dioxide
   3. argon and carbon dioxide
   4. argon and asbestos
10. What does porosity look like?
    1. small weld droplets all over metal
    2. small holes in the weld
    3. gaps in the weld
    4. uneven weld