Name
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## Applying Shielded Metal Arc Welding Define the following terms.

Alternating current		
Amperage		
Arc length		
Arc welding		
Conductor		
Crater		
Direct current		
Duty cycle		
Electricity		
Electrode		
Electrons		
Fillet weld		
Groove weld		
definition. a. arc length e. b. arc welding f.	the term with electrode polarity	the correct response. Write the letter of the term by the h. welder i. welding j. weldor
2. Bare m 3. Person 4. Opposi	netal rod.  doing the weld tion to the flow	ether and freezing of metals under controlled conditions.  ding.  w of current in a circuit.  at and melt the metal.

6. Machine doing the welding.
7. Flow of tiny particles called electrons through a conductor.
8. Direction the current is flowing.
9. Percentage of a 10 minute period that a welder can operate at a given current setting. 10. Distance from the tip of the bare end of the electrode to the base metal.
Part Two: Completion
<i>Instructions</i> . Provide the word or words to complete the following statements.
<ol> <li>Electron flow in one direction is called</li></ol>
2. The process of building up several layers of weld deposit by running overlapping passes is known as
3 is equal to the diameter of the bare end of the electrode.
4. Correct speed of travel should produce a bead that is to times the diameter of the bare end of the electrode.
5. Correct amp setting depends on the of the base metal and the of the electrode.
6. When electrical current alternates or reverses the direction of electron flow is called
7 is what causes the electric energy to be transformed into heat. 8. Running a bead with a sidewise or oscillating motion is called
Instructions. Provide information to answer the following questions. Use complete sentences.  1. What are the requirements of a good or sound weld?
2. What are the three functions of flux?
b.
c.
3. Summarize what you believe are the top 10 safety rules when welding.
a.
b.

d.
e.
f.
g.
h.
i.
j.
4. List the four welding positions:
A.
В.
C.
D.