Chapter 3

What does SMAW stand for?

Define shielded metal arc welding:

Sketch figure 3-1:

What is the source of heat in smaw?

Describe the term electric current and how electrons flow.

Electric Measurement:

 Voltage:

 Amperage:

 Wattage:

Describe open circuit voltage:

Describe operating voltage:

What is arc blow?

 What causes it?

 How can you control it?

What is the temperature of the electric arc?

How is voltage and arc length related?

Why are chemicals added to the electrode?

What determines the amount of heat produced by an arc?

The diameter of the electrode determines the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ range.

Amperage too high could result in:

Amperage too low could result in:

How much heat is lost during the welding process?

List three different types of current used for welding.

What effect does each welding current have on the weld?