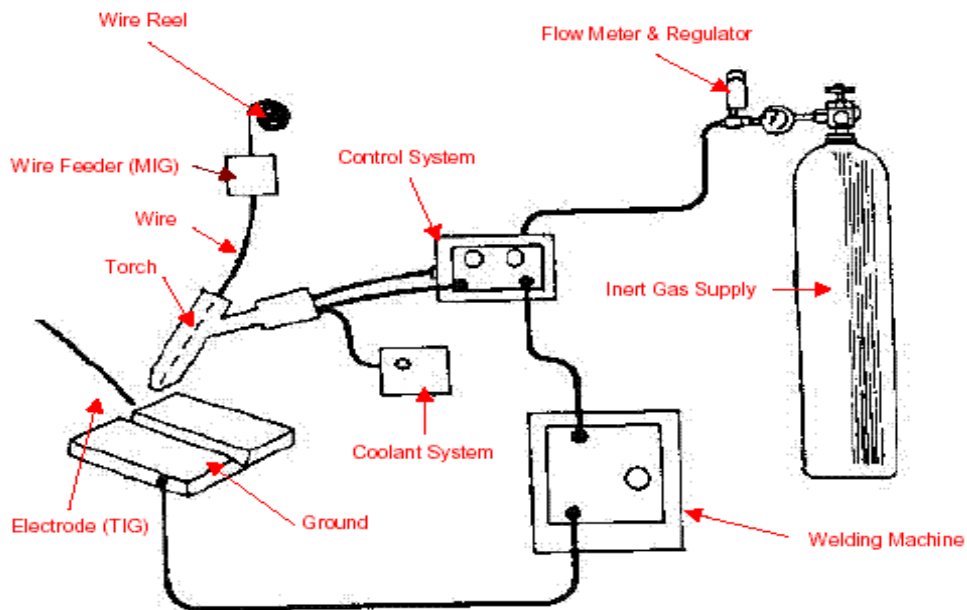


## TIG and MIG Welder Notes

### Requirements:

Proper eye protection must be worn—operate only with instructor's permission and after proper instructions have been received.

1. Additional protective welding clothing, including a helmet, long-sleeved jacket, and gloves, must be worn to prevent burns from ultraviolet and infrared rays emitted while arc welding.
2. The helmet used for TIG and MIG welding should be equipped with a minimum number 12-density shade.
3. Be certain that the welder equipped with a high-frequency stabilizing unit is installed, maintained, and used according to the recommendations of both the manufacturer and the Federal Communications Commission.
4. Never touch the tungsten electrode or MIG wire while the welder is turned on. It is electrically "hot" and can cause a serious shock.
5. The exhaust system must be turned on prior to welding.



NOTE: MIG = Metal Inert Gas. TIG = Tungsten Inert Gas

## **TIG and MIG Welder Written Test**

Use the correct heading and write the answers on your own paper. Use the BEST answer to complete the following:

1. It is okay to do TIG or MIG welding ( **Without** **With**) a welding helmet.
2. You ( **Can** **Cannot**) be shocked by touching the tungsten electrode while the TIG welder is turned on.
3. The high frequency switch must be turned ( **Off** **On**) while performing regular arc welding.
4. Both metal-arc welding and gas-shielded arc welding give off ultraviolet and infrared radiation, which ( **Can** **Cannot**) burn unprotected skin.
5. The helmet used for TIG and MIG welding should be equipped with a minimum number ( **12** **15**) density shade.

List five SAFETY procedures you should do before you operate this machine:

6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

## ***TIG and MIG Welder Test Key***

1. With
2. Can
3. Off
4. Can
5. 12

List five safety procedures you should do before you operate this or any machine:

1. Tuck in your shirt.
2. Secure your hair.
3. Remove jewelry.
4. Wear Z87 safety glasses.
5. Work with a partner.
6. Listen for and report any problems immediately.
7. Make sure that all guards are in place and working.
8. No horseplay.
9. Keep work area clean.
10. Protect hands.