

Answer key to exercise 1:

- 1 – F
- 2 – D
- 3 – H
- 4 – B
- 5 – E
- 6 – A
- 7 – C
- 8 – G

Answer key to exercise 2:

1. It needs an electrode which is non-consumable and made of tungsten.
2. You need a gas tank.
3. Because it creates visually appealing welds and doesn't require clean up, as there is no spatter.
4. Because the wire has a core of flux.
5. It requires thicker and heavier metals.

Answer key to exercise 3:

1. Wear welding mask (when using this machinery)
2. (Ear hazard area) Ear protection required at all times
3. Do not watch welding in progress
4. Welding arc / Wear proper eye protection
5. Welding gloves

Answer key to exercise 4:

Pre-operation	Operation	Post-operation
2. Ensure others are not exposed to U.V. Flash. Close curtains and ensure all bystanders are wearing proper PPE.	1. Ensure the machine is correctly set up for current, voltage, wire feed and shielding gas flow rate.	4. Close main valve on shielding gas bottle.
6. Keep area clean and free of oils, greases and anything flammable.	3. Never leave the MIG welder powered on unattended.	8. Ensure welder and fume extractor are turned off and extraction trunk valve is closed.
7. Inspect all cables for signs of damage. Report damage immediately to a technician.	5. Take particular care to avoid accidental UV welding flash to the skin or eyes.	9. Leave the work area and bench in safe, clean and tidy condition.