

Name: _____ Date: _____ Period: _____

Pewter Casting SAFETY & PROCEDURE Test

YOU MUST PASS THE SAFETY SECTION OF THIS TEST WITH 100% BEFORE CASTING PEWTER. Print a copy of this test and go to an area of the room where you will be able to do your own work without others nearby. **DO NOT** talk with others or use any notes while taking the test.

SAFETY SECTION

1. When you arrive at the workstation:
 - a. Use caution since items may be hot already
 - b. Put on personal protective equipment
 - c. Both of the above

2. To protect yourself from the hot metal:
 - a. Wear protective safety glasses
 - b. Wear heat insulating leather gloves
 - c. Wear a face shield
 - d. All of the above.

3. If you need to add pewter to the hotpot:
 - a. Only add pewter if the metal already in the pot is still solid.
 - b. Wait until the metal in the pot is melted before adding more.

4. To protect work surfaces:
 - a. Work directly on wood counter tops.
 - b. Work on top of layers of corrugated cardboard or hardboard.
 - c. Work on top of wax paper.
 - d. Work on ceramic tiles.

5. To keep molten casting metal from accidentally being spilled:
 - a. Place 2 clamps on the bottom of the mold to provide stability.
 - b. Place the hotpot close to you near the front of the work table.
 - c. Place the hotpot away from you near the back of the work area.
 - d. Both A and C.

6. The two mold halves should be held together:
 - a. By your partner
 - b. With several clamps
 - c. With masking tape

7. To avoid metal being “splashed” on you or the work area:
 - a. Never add water to hot metal
 - b. Keep all liquids away from the casting process
 - c. Be sure molds are dry and free of moisture before pouring
 - d. All of the above.

8. How long should you allow the casting to solidify and cool before removing it from the mold?
 - a. As soon as it looks cool, remove it
 - b. A minimum of 10 minutes
 - c. 24 hours
 - d. 60 seconds

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9. When done casting or during clean up time:
 - a. Unplug the hotpot
 - b. Wash your hands
 - c. Put hot items away so they don't burn others.
 - d. All of the above

10. When a crowd gathers to watch you pour the molten pewter:
 - a. Ask them to wear personal protective equipment
 - b. Stop the pouring process until they are back a reasonable distance
 - c. Suggest that they watch from the machine room, behind the glass
 - d. Splash them with hot pewter so they'll stay back.
 - e. A, B, and C

11. How long should the pewter heat before it is ready to pour?
 - a. Until it begins to melt
 - b. 10 minutes
 - c. 5-10 minutes after it has completely melted
 - d. Until the temperature is at least 850°F

12. Oxidizer is an Acid.
A. True B. False

13. What should be worn when working with oxidizer?
 - A. Safety glasses B. Rubber Gloves
 - C. Protective clothing D. A, B, and C.

14. Molds work best if pre-heated with a couple of pours.
A. True B. False

15. Rubber molds:
 - A. Should be clamped together with several clamps and fiber-board stiffeners.
 - B. Can be damaged from rough use.
 - C. Both of the above
 - D. Frequently catch fire, but are cheap to replace

16. Flashing may be removed with:
 - A. Needle files C. Chalk
 - B. Knife D. Oxidizing solution

17. After removing the casting from the mold, the "SPRUE":
 - A. Provides a way to hold the casting while it is being worked and polished.
 - B. Must be cut off immediately while it is still hot.

18. Rubber or vinyl gloves will insulate your skin from hot objects. A. True B. False

19. Wait until the clean up bell before beginning to clean up. A. True B. False

20. The electrical cord on the hot-pot can melt easily if it touches the side of the pot.
A. True B. False