

Mississippi Department of Education



MS-CPAS2 Secondary Practice Assessment/ Assessment Preparatory Guidelines *11352P1-2014 Welding*

General Instructor Preparatory Guidelines

- **STUDENTS SHOULD ONLY TAKE PRACTICE TESTS ONLINE.**
- The practice tests are delivered the **SAME WAY** as the live tests.
- Use the correct curriculum and MS-CPAS2 assessment blueprint located at: <http://www.rcu.msstate.edu/Curriculum/CurriculumDownload.aspx>
 - Teach the correct number of instructional hours per unit.
 - Cover each competency/objective listed in the curriculum/blueprint.
- Use multiple-choice (selected response) assessments in your classroom. Examples are Unit Tests, Quizzes, and Timed Final Practice Exams.
- Take **Assessment 101** (RCU online course) to learn how to form well-constructed assessments for your classroom.
- Review previous MS-CPAS2 year reports to identify class unit performance. Adjust in-class reviews accordingly.
- Students should take the **DEMO MS-CPAS2** *OR* the **PRACTICE MS-CPAS2** to help students prepare for testing day.
- **Only** use this document as a review of the online practice assessment **AFTER** students take the practice assessment online. It is **NOT** meant for use as a study guide or predict student performance on the live test.

MS-CPAS2 PRACTICE Assessment

1. While welding, one should wear:

- a. short-sleeved shirts.
- b. long-sleeved shirts.
- c. short pants.
- d. sandals.

2. The cover lens used in welding shield has the primary function to:

- a. size up the undercut.
- b. aid vision when welding.
- c. retard ultraviolet rays.
- d. protect the filter lens.

3. The proper type of gloves to wear when arc welding is:

- a. rubber gloves.
- b. nylon gloves.
- c. gauntlet-type leather gloves.
- d. cotton gloves.

4. If a valve is broken off a full oxygen cylinder, the escaping oxygen will:

- a. be prevented from escaping by the safety plug.
- b. leak harmlessly into the atmosphere.
- c. react with the atmosphere to form acetylene gas.
- d. turn the cylinder into a lethal rocket projectile.

5. The MSDS provides information on hazardous materials, such as a material's safe management, use, and:

- a. disposal.
- b. cost per ounce.
- c. color of product.
- d. odor.

6. What is $2\frac{23}{64} - 1\frac{3}{8}$?

- a. $\frac{9}{64}$
- b. $\frac{63}{64}$
- c. $1\frac{1}{64}$
- d. $1\frac{5}{16}$

7. What is 7.750 subtracted from 10.5625?

- a. 2.7369
- b. 2.8125
- c. 2.925
- d. 3.2361

8. An E-6010 $\frac{3}{32}$ -in. SMAW electrode costs \$0.69 per pound. How much does 100 lb cost?

- a. \$6.90
- b. \$9.60
- c. \$69.00
- d. \$690.00

9. What is $10\frac{3}{16} - 3\frac{7}{8}$?

- a. $6\frac{5}{16}$
- b. $6\frac{3}{4}$
- c. $7\frac{1}{2}$
- d. $7\frac{11}{16}$

10. An E-7024 $\frac{3}{16}$ -in. SMAW electrode costs \$0.99 per pound. How much does 50 lb cost?

- a. \$495.00
- b. \$99.00
- c. \$59.50
- d. \$49.50

11. What type of pliers is shown below?



- a. Slip-joint
- b. Tin snips
- c. Tongue-and-groove
- d. Needle-nose

12. A tool used to tighten or loosen specific types of screws, bolts, and other anchoring devices is:

- a. an open-end wrench.
- b. an allen wrench.
- c. a screwdriver.
- d. all of the above.

13. The blade of a framing square is 24 in. long. How many inches long is the tongue (other leg)?

- a. 10
- b. 12
- c. 16
- d. 20

14. What type of saw is shown below?



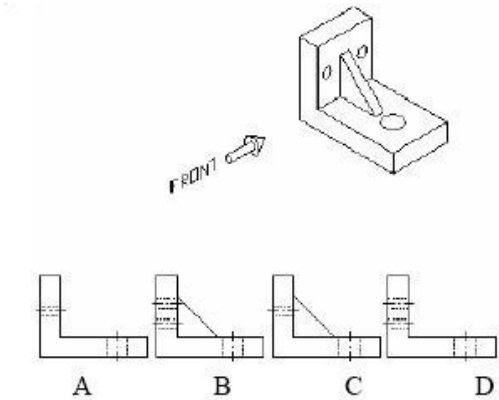
- a. Portable circular
- b. Jig
- c. Reciprocating
- d. Miter

15. What type of tool is shown below?



- a. Nail puller
- b. Wrecking/pry bar
- c. Flat bar
- d. Wood puller

16. The BEST front view of the object below is:



- a. A
- b. B
- c. C
- d. D

17. The scale used on a blueprint is given as an equation in what part of the drawing?

- a. The title block
- b. The general notes
- c. The upper-left corner
- d. The lower-left corner

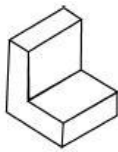
18. Wire rope slings must be inspected:

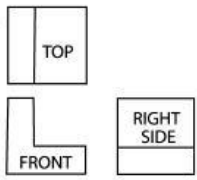
- a. once a month.
- b. before each use.
- c. after each use.
- d. once a week.

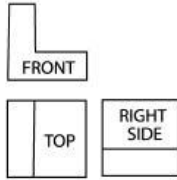
19. Cotton ropes are not a good choice for use on the job because:

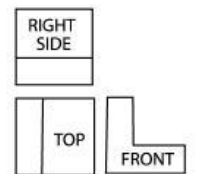
- a. they are stronger.
- b. they rot faster.
- c. they are harder.
- d. they will not hold a knot.

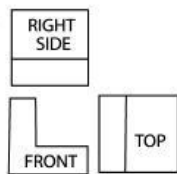
20. Which orthographic illustration below reflects the following isometric pictorial view?



A. 

B. 

C. 

D. 

- a. A
- b. B
- c. C
- d. D

21. A device with a surface table and two, three, or four skids is a:

- a. load.
- b. pipe mule.
- c. work zone.
- d. roller skid.

22. A portable device used for raising heavy objects by means of force applied with a lever, screw, or hydraulic press is a:

- a. jack.
- b. work zone.
- c. spotter.
- d. concrete mule.

23. The material to be carried, transported, or relocated by a machine or person is called a:

- a. load.
- b. jack.
- c. fall zone.
- d. spotter.

24. A one- or two-wheeled vehicle with handles at the rear used to carry small loads is a:

- a. freight elevator.
- b. pipe mule.
- c. wheelbarrow.
- d. roller skid.

25. The area where a forklift may come in contact with objects or people is the:

- a. work zone.
- b. spotter.
- c. jack.
- d. pallet jack.

26. Oxyacetylene cutting should be done wearing goggles with tinted lenses numbered:

- a. 30.
- b. 18.
- c. 5.
- d. 00.

27. The primary purpose of an oxy-fuel regulator valve is to:

- a. serve as a safety valve.
- b. prevent flashbacks.
- c. prevent backfires.
- d. control the rate of flow of gases.

28. The easiest joint preparation is the:

- a. bevel butt.
- b. J-groove butt.
- c. square butt.
- d. U-groove butt.

29. Preparing two metal plates with a space between the two plates for the purpose of weld penetration is called:

- a. face of the weld.
- b. first pass.
- c. root pass.
- d. root opening.

30. If the metal is placed on the oxygen and acetylene hoses while cutting metal, it will:

- a. cause the hoses to be damaged.
- b. not be hazardous.
- c. not do any damage.
- d. be a safe practice.

31. When checking for oxyacetylene leaks, one should:

- a. use soapy water.
- b. smell the hose.
- c. light a match.
- d. use oil.

32. Which of the metals listed below is considered to be a ferrous metal?

- a. Steel
- b. Zinc
- c. Aluminum
- d. Hafnium

33. The OFC welding torch consists of two valves, one to control acetylene and the other to control:

- a. water.
- b. nitrogen.
- c. carbon.
- d. oxygen.

34. Before welding, make sure all base metals are:

- a. buttered.
- b. chipped.
- c. cleaned.
- d. peened.

35. The joint preparation and fit up directly affects what aspect of the completed weld?

- a. Position
- b. Quality
- c. Length
- d. Strength

36. Oxyacetylene cutting is limited to the following metals EXCEPT:

- a. carbon.
- b. alloy.
- c. aluminum.
- d. mild.

37. Chain clamps are used to align and hold pipe for:

- a. bending.
- b. rotating and cutting.
- c. fit-up and tacking.
- d. cleaning.

38. Internal misalignment can be checked with a:

- a. plum bob.
- b. hi-lo gauge.
- c. fillet weld gauge.
- d. ruler.

39. Created magnetic fields while welding DC polarity are called arc blows, which are greater:

- a. at the center of the joint.
- b. at the end of the joint.
- c. on an alternating machine.
- d. on a transformer machine.

40. For what welding position(s) is an E-7024 electrode BEST suited?

- a. All welding positions
- b. Vertical only
- c. Flat and horizontal only
- d. Flat only

41. Which of the following is NOT used to clean a weld?

- a. Pneumatic scaler
- b. Vice-grip pliers
- c. Wire brush
- d. Chipping hammer

42. What changes alternating current to direct current?

- a. Rectifier
- b. Transformer
- c. Alternator
- d. Generator

43. Which of the following electrodes will produce maximum deposition rates if all electrodes used have 1/8-in. diameters?

- a. E-7024
- b. E-7018
- c. E-6013
- d. E-6011

44. Of the electrodes used to weld mild steel, which one collects moisture faster than most other types?

- a. Cast iron
- b. Fast fill
- c. Low hydrogen
- d. Fill freeze

45. The duty cycle on a welding machine is based on what period of time?

- a. 1 min
- b. 10 min
- c. 25 min
- d. 30 min

46. The type of current, the position of the weld, and the properties of the base metal must be considered when selecting the:

- a. welding process.
- b. type of flux.
- c. correct electrode.
- d. travel speed.

47. The two types of harmful rays that SMAW produces are:

- a. alpha and beta.
- b. gamma and X-ray.
- c. supersonic and ultrasonic.
- d. infrared and ultraviolet.

48. When shielded metal arc welding, the arc length should be about equal to the:

- a. base metal thickness.
- b. electrode cable size.
- c. thinnest steel in the joint.
- d. electrode diameter.

49. When evaluating a SMAW weld, you notice excessive spatter on the surrounding plate area and that the weld is flatter than normal. What is the MOST probable explanation for these problems?

- a. The electrode angle is too steep.
- b. The arc length is too short.
- c. The speed of travel is too fast.
- d. The arc length is too long.

50. The SMAW vertical-down method of welding works BEST for:

- a. thin metal.
- b. thick metal.
- c. corner joints.
- d. fillet welds.

MS-CPAS2
PRACTICE Assessment
Answer Key

Answer Key

Question	Answer
1	B
2	D
3	C
4	D
5	A
6	B
7	B
8	C
9	A
10	D
11	A
12	D
13	C
14	A
15	B
16	C
17	A
18	B
19	B
20	A
21	D
22	A
23	A
24	C
25	A

Question	Answer
26	C
27	D
28	C
29	D
30	A
31	A
32	A
33	D
34	C
35	B
36	C
37	C
38	B
39	B
40	C
41	B
42	A
43	A
44	C
45	B
46	C
47	D
48	D
49	D
50	A