

# JONES COUNTY CAREER-TECHNICAL CENTER

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Dear Parents and Career Tech Students:

From the Faculty, Staff and Administration of the Jones County Career Technical Center, it is our intent to provide enrichment activities for our students and support for our parents during these difficult times.

The following enrichment activities will allow students to review the instruction that they already have received this year.

You will find questions with answers for you to study and review. There are no assignments to be returned to school.

If the JCCTC can be of any assistance to our students and parents with the enrichment activities, please feel free to call us at 601-425-2378 between the hours of 9:00 a.m. and 1:00 p.m. or contact the instructor by email. Email addresses are located under the program name on our webpage.

Sincerely,



Rex Buckhaults  
Director, JCCTC

**Enrichment Activity Auto collision 1****True/False**

*Indicate whether the sentence or statement is true or false.*

- \_\_\_\_\_ 1. There are two general types of paint.
- \_\_\_\_\_ 2. A catalyst is a substance that speeds up the drying process.
- \_\_\_\_\_ 3. A prep solvent is used to reduce paint.
- \_\_\_\_\_ 4. Body filler is also called plastic filler.
- \_\_\_\_\_ 5. Glazing putty is similar to primer surfacer.
- \_\_\_\_\_ 6. Wet sanding paper is to be used only wet.
- \_\_\_\_\_ 7. Polishing compound is the coarsest type of hand compound.
- \_\_\_\_\_ 8. Bolt strength indicates the amount of torque that can be applied to bolts.
- \_\_\_\_\_ 9. If large enough, screws can be used to hold structural parts on a vehicle.
- \_\_\_\_\_ 10. Acrylic resin adhesive is a one part, somewhat flexible adhesive.
- \_\_\_\_\_ 11. There are two basic types of joining metal together in the automobile assembly.
- \_\_\_\_\_ 12. A welding filter lens is sometimes called a filter plate.
- \_\_\_\_\_ 13. TIG stands for Tungsten inert gas.
- \_\_\_\_\_ 14. In manufacturing, resistance spot welding is the most important welding process.
- \_\_\_\_\_ 15. Weld porosity an uneven weld bead.
- \_\_\_\_\_ 16. Aluminum is a strong, heavy metal.
- \_\_\_\_\_ 17. An insert is also known as a backing strip.
- \_\_\_\_\_ 18. Typical welding wire diameter in a body shop ranges from 0.042" to 0.068".
- \_\_\_\_\_ 19. HSLA steel is a very heavy gauge metal.
- \_\_\_\_\_ 20. MIG welding is also called brazing.

**Multiple Choice**

*Identify the letter of the choice that best completes the statement or answers the question.*

- \_\_\_\_\_ 21. A two-part bonding agent that dries harder than adhesive is called \_\_\_\_\_.
  - a. plastic filler
  - b. fiberglass
  - c. epoxy
  - d. none of the above
- \_\_\_\_\_ 22. Push-in clips are usually made of
  - a. plastic.
  - b. metal.
  - c. aluminum.
  - d. none of the above

Name: \_\_\_\_\_

ID: A

- \_\_\_\_ 23. Dowel pins have the same general \_\_\_\_ their full length.  
a. circumference c. both A and B  
b. diameter d. neither A nor B
- \_\_\_\_ 24. A wave washer adds a \_\_\_\_ to keep parts from rattling.  
a. tightness c. spring action  
b. flexibility d. none of the above
- \_\_\_\_ 25. Trim screws have \_\_\_\_ attached to them.  
a. nuts c. lock nuts  
b. washers d. none of the above
- \_\_\_\_ 26. Technician A says self locking nuts must produce a friction when threaded onto a bolt. Technician B says self locking nuts must produce a force fit when threaded onto a bolt. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B
- \_\_\_\_ 27. Technician A says rubbing compound is the coarsest type of hand compound. Technician B says polishing compound is the coarsest type. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B
- \_\_\_\_ 28. Technician A says with sandpaper the higher the number, the coarser the grit. Technician B says the higher the number, the finer the grit. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B
- \_\_\_\_ 29. Technician A says fiberglass resin is another form of plastic body repair material. Technician B says fiberglass resin needs a special type of hardener to cure. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B
- \_\_\_\_ 30. Technician A says anti-chip coating is also called gravel guard. Technician B says chip guard is also known as vinyl coating. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B
- \_\_\_\_ 31. Technician A says sandblasting is one form of chemical stripping. Technician B says chemical stripping involves a liquid stripper. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B
- \_\_\_\_ 32. Technician A says epoxy primer is a two-part primer that cures fast and hard. Technician B says epoxy primer cures hard, but very slowly. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B
- \_\_\_\_ 33. Technician A says filler is any material used to fill or level a damaged area. Technician B says filler refers only to plastic body filler. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B
- \_\_\_\_ 34. Technician A says corrosion is also called rust. Technician B says rust is also called oxidation. Who is correct?  
a. Technician A c. both A and B  
b. Technician B d. neither A nor B

- \_\_\_\_\_ 35. Technician A says a paint sealer is also known as a clear coat. Technician A says a paint sealer must be sprayed on all vehicles when refinishing. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_\_ 36. Technician A says a paint binder is a folder that holds all late model paint reference chips. Technician B says a paint binder is an ingredient in paint that holds the pigment together. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_\_ 37. Technician A says there are four common types of OEM coating processes. Technician B says there only three types. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_\_ 38. Technician A says waterbased paints were used only in the 1970's. Technician B says water based paints are still in use currently. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_\_ 39. Technician A says acrylic enamel is a specific type of enamel used currently in industry. Technician B says urethane enamel is a specific type of enamel used currently. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_\_ 40. Technician A says Isocyanates are the principal ingredients in some urethane hardeners. Technician B says Isocyanates are very toxic. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_\_ 41. The most common type of welding for unibody panels is
- a. TIG.
  - b. MIG.
  - c. oxy-acetylene brazing.
  - d. none of the above
- \_\_\_\_\_ 42. When MIG welding with C-25 inert shielding gas, what is the recommended percentage of argon used?
- a. 25
  - b. 50
  - c. 75
  - d. none of the above
- \_\_\_\_\_ 43. MIG welding became popular when manufacturers starting using what type of metal?
- a. HSLA
  - b. aluminum
  - c. magnesium
  - d. all of the above
- \_\_\_\_\_ 44. There are how many basic MIG welding techniques?
- a. 2
  - b. 4
  - c. 6
  - d. 10
- \_\_\_\_\_ 45. Aluminum is now used automotively for
- a. frames
  - b. bodies
  - c. chassis parts
  - d. all of the above
- \_\_\_\_\_ 46. Technician A says on a MIG machine the wire to heat ratio is under 6,500 degrees F. Technician B says the wire to heat ratio is in the 9,000 degree range. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B

- \_\_\_\_ 47. Technician A says a welding filter lens are graded with numbers from 4 to 12, lower being the darker. Technician B says the higher the number means the darker the lens. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 48. Technician A says stitch welds are a series of separate MIG spot welds. Technician B says stitch welds are a series of connecting overlapping MIG spot welds. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 49. Technician A says that only 38% of factory welds on unibody cars are spot welds. Technician B says this percentage is as high as 60%. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 50. Technician A says oxyacetylene welding is a type of fusion welding. Technician B says it is a type of electric welding. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 51. Technician A says a neutral flame is a carbonizing flame. Technician B says a neutral flame is the standard flame for oxyacetylene. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 52. Technician A says soldering is not used to reinforce panel joints. Technician B says soldering is only used for final finishing. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 53. Technician A says a plasma arc cutter creates an intensely hot air stream. Technician B says a plasma arc is a form of arc welding. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 54. Technician A says when cutting with a plasma arc the travel speed is faster with thicker material. Technician B says the travel speed is slower with thicker material. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 55. Technician A says plasma arc cutting will never replace oxyacetylene cutting because of its slow cutting speed. Technician B says oxyacetylene is the fastest way to cut metal. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 56. Technician A says there is only one type of brazing. Technician B says there are two types of brazing. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 57. Technician A says the oxygen regulator should be set at 8-25 psi. Technician B says the oxygen should be set at 8-100 psi.
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B

Name: \_\_\_\_\_

ID: A

- \_\_\_\_ 58. Technician A says a heat crayon is used to determine the temperature of the metal. Technician B says thermal paint is used to determine the temperature. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 59. Technician A says brazing can be used to weld panels together. Technician B says brazing is only applied to places for sealing. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B
- \_\_\_\_ 60. Technician A says heat sink compound is a paste applied to parts to absorb heat. Technician B says heat sink compound prevents warpage. Who is correct?
- a. Technician A
  - b. Technician B
  - c. both A and B
  - d. neither A nor B

### Completion

*Complete each sentence or statement.*

61. \_\_\_\_\_ finishes dry with a gloss and does not require rubbing or polishing.
62. The \_\_\_\_\_ improves adhesion of the topcoat.
63. \_\_\_\_\_ is added to pearl paints to give the paint a luster.
64. The first stage of the drying process where solvent evaporates is called \_\_\_\_\_.
65. An additive that allows primers and paint to flex is called a \_\_\_\_\_.
66. The \_\_\_\_\_ is the area around the weld that becomes adversely hot.
67. GMAW is better known as \_\_\_\_\_.
68. An uninterrupted seam or bead is known as a \_\_\_\_\_.
69. A surplus flame or reduction flame is also known as a \_\_\_\_\_ flame.
70. An oxyacetylene torch can reach temperatures of \_\_\_\_\_ degrees F.

**Enrichment Activity Auto collision 1**  
**Answer Section**

**TRUE/FALSE**

1. ANS: F
2. ANS: T
3. ANS: F
4. ANS: T
5. ANS: T
6. ANS: F
7. ANS: F
8. ANS: T
9. ANS: F
10. ANS: F
11. ANS: F
12. ANS: T
13. ANS: T
14. ANS: T
15. ANS: F
16. ANS: F
17. ANS: T
18. ANS: F
19. ANS: F
20. ANS: F

**MULTIPLE CHOICE**

21. ANS: C
22. ANS: A
23. ANS: B
24. ANS: C
25. ANS: B
26. ANS: C
27. ANS: A
28. ANS: B
29. ANS: C
30. ANS: C
31. ANS: B
32. ANS: A
33. ANS: B
34. ANS: C
35. ANS: D
36. ANS: B

- 37. ANS: A
- 38. ANS: B
- 39. ANS: C
- 40. ANS: C
- 41. ANS: B
- 42. ANS: C
- 43. ANS: A
- 44. ANS: C
- 45. ANS: D
- 46. ANS: B
- 47. ANS: B
- 48. ANS: B
- 49. ANS: D
- 50. ANS: A
- 51. ANS: B
- 52. ANS: C
- 53. ANS: A
- 54. ANS: B
- 55. ANS: D
- 56. ANS: B
- 57. ANS: A
- 58. ANS: C
- 59. ANS: B
- 60. ANS: C

## **COMPLETION**

- 61. ANS: Enamel
- 62. ANS: primer
- 63. ANS: Mica
- 64. ANS: flash
- 65. ANS: flex agent
- 66. ANS: heat effect zone
- 67. ANS:  
metal inert gas  
MIG welding
- 68. ANS: continuos weld
- 69. ANS: carburizing
- 70. ANS: 5,400