



WOODLAND WELDING WORKS

General Welding & Manufacturing

EXPERIENCE EVALUATION AND WELDING TEST

TEST DURATION: 75 MIN.
REQUIRED EQUIPMENT: WELDING HOOD
WELDING GLOVES
SIDE CUTTERS
SQUARE
CHIPPING HAMMER
TAPE MEASURE

THIS QUESTIONNAIRE IS MERELY AN EVALUATION OF EXPERIENCE. THE RESULTS WILL INDICATE YOUR KNOWLEDGE STATUS AND WILL REFLECT ON YOUR POSITION AND PAY SCALE. THIS QUESTIONNAIRE SHALL NOT BE INTERPRETED AS AN INTELLIGENCE OR ABILITY ANALYSIS OR CAPABILITY LIMITATION.

Applicant:	Date:
Checked by:	Test by:
Comments:	

SAFETY

1. Safety glasses are to be used only
 - A. ◇ when grinding.
 - B. ◇ when chipping
 - C. ◇ at all times during working hours including field work.

2. Torn or taped clothing or foot wear is O.K.
 - A. ◇ when welding.
 - B. ◇ grinding.
 - C. ◇ painting.
 - D. ◇ never O.K.

3. Safety is the responsibility of
 - A. ◇ manager.
 - B. ◇ supervisor.
 - C. ◇ safety team leader.
 - D. ◇ yourself.
 - E. ◇ all.

4. When grinding always protect
 - A. ◇ yourself with glasses and proper clothing.
 - B. ◇ you and your co-workers with shields or guards.
 - C. ◇ you, your co-workers and equipment.
 - D. ◇ all of the above.

5. Avoid ARC-Eye, also known as flashing, by
 - A. ◇ closing eyes when Tack Welding.
 - B. ◇ using welding hood at all times.
 - C. ◇ wearing safety glasses.

6. It's O.K. to use air nozzle to blow-off dirt or dust off your clothes and body parts
 - A. ◇ only with low pressure.
 - B. ◇ only if you are very dirty.
 - C. ◇ only if there is no grease on yourself.
 - D. ◇ never use pressurized air of any kind.

7. It's O.K. to clean your work area by blowing compressor air when it gets dirty

- A. ◇ only with permission of supervisor.
- B. ◇ only when area is dirty.
- C. ◇ only when you are in a hurry.
- D. ◇ never used pressurized air to clean work station.

8. When in doubt about shop equipment, you should ask

- A. ◇ the boss.
- B. ◇ the immediate supervisor.
- C. ◇ your friend.
- D. ◇ the person that operates that equipment.

9. When you see a defective piece of equipment you should

- A. ◇ fix it.
- B. ◇ forget about it.
- C. ◇ let your buddies know about it.
- D. ◇ report it to the supervisor.

10. When you are not sure about your assignment you should

- A. ◇ discuss with your closest co-worker.
- B. ◇ report to the office.
- C. ◇ discuss it with the supervisor.
- D. ◇ let the boss know about it.

11. Oil spills on the floor as insignificant as it may seem should be treated

- A. ◇ lightly.
- B. ◇ let clean up person take care of it.
- C. ◇ wiped up immediately.

12. Using thinners or Kerosene to wash hands or wipe body parts is O.K.

- A. ◇ when painting.
- B. ◇ when working on machinery.
- C. ◇ never.

STEEL

1. A-36 steel is commonly called

- A. ◇ mild steel.
- B. ◇ stainless steel.
- C. ◇ spring steel.
- D. ◇ other_____

2. A-R plate is used for

- A. ◇ corrosion resistance.
- B. ◇ abrasion.
- C. ◇ other.

3. What is the difference between T-1 steel and A-36 steel?

- A. ◇ tensile.
- B. ◇ weight.
- C. ◇ name.

4. What is the outside dimension of 4" schedule 40 pipe?

- A. ◇ 4".
- B. ◇ 4 1/2".
- C. ◇ 4 1/4".

5. Name the following symbols:

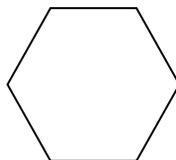
- | | | |
|-----------------------------------|------------------------|---------------------------|
| (\sphericalangle) A. ◇ Angle. | (ϕ) A. ◇ Angle. | (\square) A. ◇ Angle. |
| B. ◇ Diameter. | B. ◇ Diameter. | B. ◇ Diameter. |
| C. ◇ Channel | C. ◇ Channel. | C. ◇ Channel. |

6. What is the difference in steel and stainless steel?

- A. ◇ corrosion resistance.
- B. ◇ color.
- C. ◇ weight.
- D. ◇ all of the above.

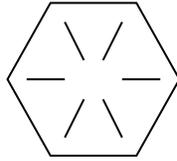
7. What grade bolt is this?

- A. ◇ grade 5.
- B. ◇ grade 8.
- C. ◇ grade 2.



8. What grade bolt is this?

- A. ◇ grade 5.
- B. ◇ grade 8.
- C. ◇ grade 2.



9. What is flux cored wire?

- A. ◇ coated wire.
- B. ◇ gas-less wire.
- C. ◇ steel wire.
- D. ◇ tubular wire.

10. What is the tensile strength of these rods?

- A. 6011 rod _____
- B. 7018 rod _____
- C. 10016D2 _____

11. What is the difference in cold rolled and hot rolled?

STAINLESS STEEL

1. What is the main difference between stainless steel and mild steel?

- A. ◇ tensile strength.
- B. ◇ corrosion resistance.
- C. ◇ tensile.

2. Is stainless steel good for wear resistance?

- A. ◇ yes.
- B. ◇ no.

3. Is stainless steel recommended for corrosion resistance?

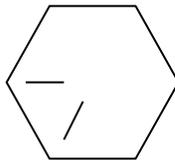
- A. ◇ yes.
- B. ◇ no.

4. Name the types of stainless steel you are familiar with (example 310).

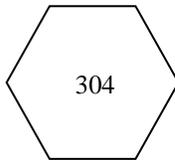
5. What is inconel excellent for? _____

6. When welding 304 stainless steel which filler is recommended?

7. What type of bolt is this?



8. What type of bolt is this?



9. What welding process have you used on stainless steel?

10. What precautions should be used when welding and grinding stainless steel?

11. When TIG is used, what type of gas is used?

12. When MIG-welding stainless steel, what type of gas is used?

13. When welding light gauge (16) stainless steel, what color of the weld tells you that you have the best heat and speed?

14. What is the O.D. of 3 1/2" pipe 304 stainless steel?

15. What is the O.D. of 3 1/4" tube with 0.065 wall?

16. What is purging?

ALUMINUM

1. How do you identify aluminum?

- A. ◇ color.
- B. ◇ weight.
- C. ◇ non-magnetic.
- D. ◇ all.

2. Aluminum is frequently used for

- A. ◇ light weight.
- B. ◇ corrosive environment.
- C. ◇ abrasion resistance.

3. What processes can aluminum be welded with?

4. Is 5356 filler rod recommended for the following?

- A. 6061-T6 _____ B. 5052 _____

5. Is 6061-T6 weldable? _____ ... formable? _____

6. What filler rod is recommended on 6061-T6 for color match after anodizing?

- A. ◇ 5556
- B. ◇ 5356
- C. ◇ 4043
- D. ◇ 6061-T6

7. What precautions should be used when welding aluminum?

8. What is electrolysis?

9. What is the best procedure used to weld aluminum?

10. What precautions should be taken when welding and grinding aluminum?

11. What is the biggest problem when welding aluminum?

MATH

1. $8'$ = _____ inches.
2. $6' 6''$ = _____ inches.
3. 0.5 = _____ as a fraction.
4. $\frac{3}{4}$ = _____ as a decimal.

5. What is π ? _____

6. What is radius?

- A. \diamond $\frac{1}{2}$ distance of diameter.
- B. \diamond double distance of diameter.

7. What is circumference?

8. 144 sq. in. = _____ sq. ft.

9. Evaluate: $\frac{3}{4} + 1 \frac{1}{8} + \frac{1}{8} =$ _____

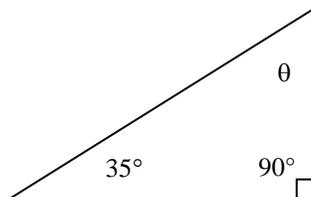
10. Evaluate: $0.875 + 0.125 =$ _____

11. What is the 3-4-5 rule used for?

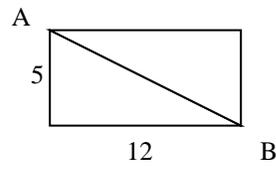
12. Can you lay out a square to round?

13. How many sq. ft. is in a 4 x 8 sheet? _____

14. $\theta =$ _____

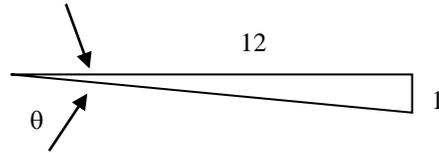


15. What is the distance between A and B?



AB = _____

16. $\theta =$ _____



17. a = _____

