**Online Welding Video Worksheet**

Video # **9** Title: **Beginners Guide to MIG Welding** Source: **Weld.com**

Video Length:**25:50** URL: <https://www.youtube.com/watch?v=QlmOb1tIJ4Y>

Instructor: **Bob Moffatt**

1. Bob talks about a person who sent a contact via social media about a welding issue he was having.

***Why would this person take the time to contact Bob at Weld.com?***

2. What does Bob feel is so important about a person’s welding skills?

***What should the welder be able to do all of the time?***

3. ***What welding position(s) does Bob say that a person using MIG (GMAW) welding be able to weld***

***in?***

4. ***What is Bob’s opinion about cleaning the metal prior to welding with MIG or TIG?***

5. ***Are there benefits to cleaning metal prior to MIG welding?***

6. ***Where does Bob plan on placing his first MIG weld?***

7. Bob talks about several detail about the welding machine settings which include:

***(Please write in the settings which Bob will be using)***

 Voltage:

 Wire Feed Speed (WFS): IPM (Inches per minute):

 Gas: C25 (25% CO2 & 75% Argon) 25cfh (Cubic Feet per Hour):

 Wire Size: (Diameter in 1/100ths of an inch):

8. ***How wide of a weld bead does Bob plan on putting down?***

**Carefully watch the close up view of Bob welding with MIG to determine answers to the next two questions.**

9. ***What do you notice about his weld*** ***pattern/manipulation and distance the nozzle is from the welding***

***surface?***

10. ***In relation to the edge of the metal plate, where does Bob keep his arc?***

11. ***After he completes his weld, what is Bob chipping off?***

12. ***What kind of weld manipulation or pattern does Bob say that welders should avoid?***

13. ***What is Bob’s goal for his second weld?***

14. ***Where does Bob place the arc of his second weld?***

15. After his second weld, Bob discusses his travel speed (How fast he moved the arc over the metal

plate). ***What were the possible effects on his weld if he traveled too fast or too slow?***

16. ***What issue did Bob have making his horizontal weld? Why is this issue important?***

17. ***What settings changes did Bob have to make as he was changing welding positions?***

18. ***What weld pattern did Bob use in Vertical Down?***

19. As Bob starts talking about using a weaving pattern, please notice that he has put down 10 MIG welds

in different positions. ***What do you think of the quality and uniformity of his 10 MIG welds?***

20. ***Why is Bob choosing to use a scribe? What does a scribe do?***

21. ***What do you think of the quality, uniformity and appearance of the weld Bob does between the two***

***scribe lines?***

22. Bob talks about keeping his wire & arc on the leading edge of the weld pool. As you watch his welds,

***are you able to see what he is talking about in keeping the arc on the leading edge? Is this what***

***you have been doing in your welding?***

23. Notice that Bob keeps a block of wood on the welding table. ***What does he use the wood block for?***

24. Complete Bob’s statement: ***“You practice until you \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_.”***

25. As Bob welds Vertical Up between the two previous welds, ***what do notice about his weld pattern***

***and travel speed?***

26. As Bob welds Vertical Up between the two previous welds, ***what do notice about Bob pausing his***

***weld on the left and right sides? Why would he pause on the sides?***

27. ***What difference(s) did you notice when Bob welded on the uncleaned metal?***

28. ***What are Bob’s closing remarks about welders developing their skills in MIG welding?***