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02104T4WGMA**WELDING (GAS AND MANUAL METAL ARC) LEVEL 4****ENG/OS/WEF/CR/01/4**

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Perform Manual Metal (Stick) Welding

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July/August 2025.

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**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

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WRITTEN ASSESSMENT**Time: 2 HOURS**

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INSTRUCTIONS TO CANDIDATE

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1. This paper consists of two sections; A and B

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2. Attempt ALL the question as guided in each section

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3. Marks for each question are as indicated in the brackets**4. You are provided with a separate booklet to answer the questions**

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5. Do not write in this question paper.**This paper consists of FOUR (4) printed pages Candidates should**

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check the question paper to ascertain that all pages are printed as**indicated and that no questions are missing**

SECTION A (10 MARKS)***Attempt all questions in this section. Each question carries one mark***

1. Choose from the follt, the tool used to remove slag after welding a job in the flat position.

- A. Tongs
B. Chipping hammer

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25.07.2025 08:38 AM

- D. Hand file

2. The electrode E06013 was procured for a welding ing of the character **60** in the code.

- A. Welding current required
B. Voltage required
C. Weld strength
D. The welding position not limited

3. Sheet metal part was observed to distort after welding. Identify the cause of this welding defect.

- A. Incorrect welding position
B. Low current setting
C. Poor choice of electrode
D. Uneven cooling.

4. Select the correct description for welding two angle lines in flat position.

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the electrode vertically at angle less than 60°

- B. holding the electrode horizontally
C. welding vertically top down
D. welding them while holding them above your head

5. Welding symbols provide in on _____.

- A. The welding method
B. The welding position

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joint

D. The welding position and method.

6. Choose from the list the term that refers to vertical distance between the electrode tip and the surface of the work.

- A. Arc length
- B. Electrode height
- C. Stroke length
- D. Welding displacement.

7. A narrow weld bead is a welding defect caused by _____

- A. Arc length too long
- B. High travel speed
- C. Arc length too short
- D. Slow travel speed

8. Identify appropriate weld dressing method from the following

- A. Painting
- B. Dusting
- C. Bluing

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Filing

9. Welding safety procedures require well insulated welding cables. This procedure protects welder against _____

- A. Electric shock
- B. Burns
- C. UV rays

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10. Select a welding edge preparation operation

- A. Debarring
- B. Painting
- C. Drilling
- D. Grooving

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SECTION B (40 MARKS)***Attempt all questions in this section.)***

11. ~~Identify~~ **Identify** FOUR ~~causes~~ **causes** of welding defects. (4 Marks)

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12. List FOUR welding accessories. (4 Marks)

13. Outline FOUR ways of inspecting quality of a welded part. (4 Marks)

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14. ~~Outline the procedure~~ **Outline the procedure** of setting up to weld a broken axle of a chain block. (4 Marks)

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15. Using sketches identify TWO types of welded joints. (4 Marks)

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16. List THREE materials that are weldable by stick welding. (3 Marks)

Date: 25.07.2025 08:38 AM

17. List THREE tools used for marking out in a welding task. (3 Marks)

18. Name TWO personal protective equipment that are used to protect the eyes during welding process. (2 Marks)

19. List FOUR welding hazards. (4 Marks)

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20. List FOUR parts of Manual Metal Arc Welding machine. (4 Marks)

21. Identify FOUR materials that are disposed as waste after performing welding. (4 Marks)

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