INTERACTIVE WORKSHEET (LKPD) - DAY 2

Bahasa Inggris Kelas XI SMK | Listening & Reading: Welding Procedure Text

PJJ ONLINE

Nama Siswa	[Ketik Nama Lengkap]	Kelas / No.	XI ..... / .....

SECTION 1: LISTENING TASK (PROCEDURE TEXT)

🎧 **Audio Instruction for Students:** Listen carefully to the audio text titled *"Procedure for Preparing MAG/MIG Welding Machine"*, then answer Parts A and B below.
(Note for Liveworksheets: Insert Audio MP3 or use Liveworksheets TTS: `listen:en-US: [Listening Script]`)

📄 **Teacher's Audio Script (Guru / Audio Liveworksheets):**
"Good morning students. Today I will explain how to set up a MIG welding machine safely before starting work. First, check the main power cable and ensure the machine is plugged into a grounded power socket. Second, install the correct wire spool and feed the welding wire carefully through the drive rolls into the torch hose. Third, adjust the wire feed tension knob—do not make it too tight or too loose. Fourth, open the shielding gas cylinder valve slowly and adjust the gas flow meter to 12-15 liters per minute. Finally, attach the work clamp securely to a clean metal surface. Now, your machine is ready to weld!"

Part A: Multiple Choice Listening (Questions 1 - 5)

Choose the correct answer (A, B, C, or D) based on the audio!

1. What is the main topic of the audio recording?

(A) How to repair broken metal joints
(B) How to set up a MIG welding machine
(C) How to replace a gas regulator
(D) How to clean safety helmets

Jawaban: [select: B]

2. Where should the main power cable be plugged into?

(A) An extension cord on the floor
(B) Any generator nearby
(C) A grounded power socket
(D) A high voltage transformer

Jawaban: [select: C]

3. What should be done with the welding wire?

(A) Feed it through drive rolls into torch hose
(B) Cut it into short 10 cm pieces
(C) Heat it before placing in spool
(D) Connect it directly to clamp

Jawaban: [select: A]

4. What is the recommended shielding gas flow rate?

(A) 5 - 8 liters per minute
(B) 12 - 15 liters per minute
(C) 20 - 25 liters per minute
(D) 30 - 40 liters per minute

Jawaban: [select: B]

5. Where should the work clamp be attached?

(A) To a painted wooden bench
(B) To the gas cylinder wall
(C) To a clean metal surface
(D) To the torch tip nozzle

Jawaban: [select: C]

Part B: True / False Listening Statement (Questions 6 - 10)

No	Statement (Pernyataan)	True / False
6	You should make the wire feed tension knob as tight as possible.	[select: False]
7	The gas cylinder valve must be opened quickly in one stroke.	[select: False]
8	A grounded socket is needed to ensure electrical safety during setup.	[select: True]
9	The wire spool is installed before setting up the wire feed tension.	[select: True]

LIVEWORKSHEETS

No	Statement (Pernyataan)	True / False
10	Attaching the work clamp is the very first step in the procedure.	[select: False]

SECTION 2: VOCABULARY CHECK (WELDING TECHNICAL TERMS)

Jodohkan kata teknis berikut dengan definisi yang paling tepat! Ketik huruf pilihan (A - E) di kotak interaktif.

1. **Shielding Gas:** [choose: C]
2. **Wire Spool:** [choose: A]
3. **Beveling:** [choose: E]
4. **Slag:** [choose: B]
5. **Regulator:** [choose: D]

Pilihan Definisi:
A. Gulungan kawat las yang menjadi bahan pengisi (filler).
B. Lapisan kerak sisa pembakaran yang melapisi hasil las.
C. Gas pelindung busur las dari kontaminasi udara luar.
D. Alat pengatur dan pemantau tekanan keluarnya gas.
E. Pemotongan miring pada tepi plat sebelum dilas.

SECTION 3: READING COMPREHENSION (TEXTS 1 & 2)

Bacalah kedua teks prosedur pengelasan berikut, lalu selesaikan 10 soal pemahaman di bawahnya!

TEXT 1: How to Safely Change a Shielding Gas Cylinder

Replacing an empty shielding gas cylinder (Ar/CO2) requires strict safety steps to prevent high-pressure gas accidents in the workshop.

Steps:

1. Close the main cylinder valve completely by turning it clockwise.
2. Release residual pressure from the gas line hose by opening the flowmeter valve until the pressure gauge reads zero.
3. Unscrew the regulator nut carefully using an adjustable wrench. Store the regulator in a clean area.
4. Unfasten the safety chain, remove the empty cylinder, and cap it immediately with a protective valve cap.
5. Move the new full cylinder into place, secure it with the safety chain, remove the valve cap, and reattach the regulator tightly.

TEXT 2: Surface Preparation Before Welding Joints

Proper metal surface preparation is essential to achieve strong, defect-free weld beads and prevent porosity or cracking.

Steps:

1. Remove rust, oil, grease, paint, or mill scale from the metal edges using a wire brush or hand grinder.
2. Bevel the thick plate edges (above 6 mm thickness) at a 30 to 35-degree angle to create a V-groove joint.
3. Wipe the cleaned surface with a degreasing solvent (such as acetone) using a lint-free cloth.
4. Tack weld the workpiece joints at short intervals to hold proper alignment and gap during full welding.

Reading Questions (Soal 1 - 10)

Pilih atau ketik jawaban terbaik untuk setiap pertanyaan berikut!

LIVEWORKSHEETS

1. What is the main purpose of Text 1?

A. To explain how to repair gas leaks
B. To describe steps in changing gas cylinders
C. To show how to weld thick metal plates

Jawaban: [select: B]

2. How do you close the main cylinder valve in Text 1?

A. By pulling the safety valve
B. By turning it counter-clockwise
C. By turning it clockwise

Jawaban: [select: C]

3. When should you cap the empty cylinder?

A. Right after unfastening the safety chain
B. Before turning off the valve
C. After attaching the new regulator

Jawaban: [select: A]

4. What tool is used to unscrew the regulator nut?

A. Wire brush
B. Adjustable wrench
C. Hand grinder

Jawaban: [select: B]

5. In Text 1 Step 4, what does the word "it" refer to?

A. The regulator nut
B. The empty cylinder
C. The safety chain

Jawaban: [select: B]

6. Why is surface preparation necessary before welding?

A. To make the workpiece look shiny
B. To prevent weld defects like porosity
C. To reduce gas pressure consumption

Jawaban: [select: B]

7. What plate thickness requires edge beveling?

A. Below 2 mm
B. Exactly 4 mm
C. Above 6 mm

Jawaban: [select: C]

8. What solvent is recommended for degreasing in Text 2?

A. Acetone
B. Engine oil
C. Clean water

Jawaban: [select: A]

9. What is the purpose of "Tack Welding" in Step 4?

A. To hold alignment and gap during welding
B. To clean off thick rust and paint
C. To cool down the metal plate

Jawaban: [select: A]

10. The word "essential" in Text 2 is closest in meaning to...

A. Optional
B. Very important / Crucial
C. Dangerous

Jawaban: [select: B]

LIVEWORKSHEETS

```
### Panduan Integrasi ke Liveworksheets:
1. **Audio Listening:**
   * Apabila mengunggah file PDF dokumen ini ke Liveworksheets, Anda bisa memanfaatkan fitur **Text-to-Speech (TTS)** dengan menambahkan kode `listen:en-US:[Script Audio]` pada kotak suara.
   * Atau mengunggah audio rekaman sendiri (*mp3*) dan menempatkannya di bagian *Section 1*.
2. **Kunci Jawaban Otomatis (Autograding):**
   * Pilihan ganda di atas sudah diformat dengan sintaks `select:jawaban` (misal: `select:B`).
   * *True/False* menggunakan sintaks `select:True` / `select:False`.
   * *Vocabulary matching* menggunakan sintaks `choose:A`, `choose:B`, dst.
```

LIVEWORKSHEETS