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Courses » Joining Technologies for metals

Announcements **Course** Ask a Question Progress FAQ

Unit 3 - Week 2

Register for
Certification exam

Course outline

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the portal

Week 1

Week 2

- Lec 06 - Principle of Fusion Welding Processes: Gas Welding

- Lec 07 - Fundamentals of Welding

- Lec 08 - Physics of Welding Arc

- Lec 09 - Shielded Metal Arc Welding

- Lec 10 - Gas Tungsten Arc Welding

- Quiz : Assignment 2

- Solution for Assignment No. 2

Week 3

Week 4

Assignment 2

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-13, 23:59 IST.**1) In the autogenous fusion welding of similar metals **1 point**

- Base metal and weld zone have similar microstructure
- Base metal and weld zone have similar chemical composition
- Solidification takes place by nucleation and growth mechanisms
- All of above

No, the answer is incorrect.**Score: 0****Accepted Answers:***Base metal and weld zone have similar chemical composition*2) The fuel gas used in gas welding which offers maximum temperature is **1 point**

- Acetylene
- Natural gas
- Propylene
- Hydrogen

No, the answer is incorrect.**Score: 0****Accepted Answers:***Acetylene*3) In order to increase melting capability of flame during gas welding **1 point**

- Tip of flame's outer cone should be in touch with workpiece surface
- Tip of flame's inner cone should be in touch with workpiece surface
- Tip of flame's outer cone should be 5 mm away from the workpiece surface
- Tip of flame's outer cone should be 10 mm away from the workpiece surface

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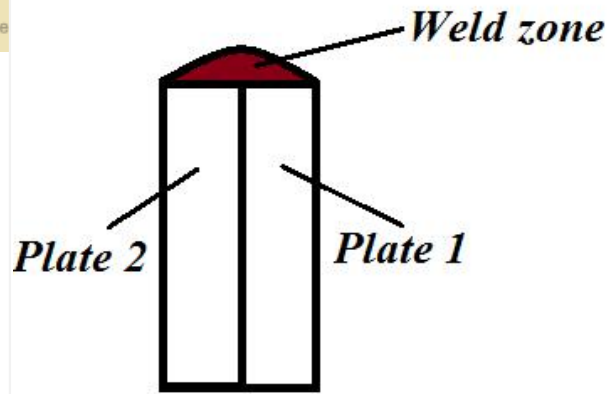
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Week 8

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- Butt
 Lap
 Tee
 Edge

No, the answer is incorrect.
Score: 0

Accepted Answers:
Edge

5) Which one of the following coating factor value shows heavily coated electrodes **1 point**

- 0.8
 1.1
 1.7
 2.1

No, the answer is incorrect.
Score: 0

Accepted Answers:
2.1

6) Elements in electrode coating which improve arc stability for shielded metal arc welding are **1 point**

- Sodium & potassium
 Ferro-manganese
 Ferro-silicon
 All of above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Sodium & potassium

7) In the electrode melting rate equation, $MR = a.I + b.I.I^2$, the term that accounts for electrical resistance heating is **1 point**

- a.I
 b.I.I^2
 Both a.I and b.I.I^2
 There is no term which incorporates electrical resistance heating

No, the answer is incorrect.

Score: 0

Accepted Answers:

b, l, l^2

8) An increase in arc gap (at same current) during gas tungsten arc welding

1 point

- Decreases arc voltage
- Increases arc voltage
- Increases weld bead width
- Both b and c



No, the answer is incorrect.

Score: 0

Accepted Answers:

Both b and c

9) Which one the following is NOT a characteristic of gas tungsten arc welding?

1 point

- Clean weld
- Short arc length
- Consumable electrode
- Use of argon or helium for shielding



No, the answer is incorrect.

Score: 0

Accepted Answers:

Consumable electrode

10) Compared to argon gas, the use of helium gas for shielding in GTAW process under similar conditions offers

1 point

- Higher arc stability
- Deeper penetration
- Lower heat input
- All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Deeper penetration

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