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Courses » Joining Technologies for metals

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Unit 7 - Week 6

Register for Certification exam

Course outline

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- Lec 26 - Explosive welding
- Lec 27 - Magnetic pulse welding
- Lec 28 - Weld thermal cycle
- Lec 29 - Heat affected zone and weld thermal cycle: I
- Lec 30 - Heat affected zone and weld thermal cycle: II
- Quiz : Assianment 6

Assignment 6

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. **Due on 2019-04-10, 23:59 IST.**

1) Explosive welding can be used for 1 point

- Joining dissimilar metal combinations in lap joint configuration
- Cladding purpose
- Joining dissimilar metal combinations in butt joint configuration
- Both a and b

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both a and b

2) Explosive welding involves 1 point

- I. One component is accelerated at high velocity towards the other
- II. Localized micro level plastic deformation of the faying surfaces
- III. Melting of faying surfaces
- IV. Joining of pipes

- I, II, IV
- I, III and IV
- I and II
- II, III and IV

No, the answer is incorrect.
Score: 0

Accepted Answers:
I, II, IV

3) In magnetic pulse welding, a combination of process parameters used are 1 point

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Score: 0

Accepted Answers:

Short time, high current

4) Magnetic pulse welding can be used to fabricate **1 point**

- Butt joints
- Thick section pipe edge joints
- Lap joints of thin sheets
- All of above



No, the answer is incorrect.

Score: 0

Accepted Answers:

Lap joints of thin sheets

5) During welding, time required to reach peak temperature will be **1 point**

- Maximum for weld zone
- Minimum for weld zone
- Minimum for unaffected base metal
- Maximum for heat affected zone



No, the answer is incorrect.

Score: 0

Accepted Answers:

Minimum for weld zone

6) Application of preheat prior to welding leads to **1 point**

- Slower cooling rate
- Higher cooling rate
- Same cooling rate
- All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Slower cooling rate

7) With increase in deformation, strain energy stored in the deformed material will **1 point**

- Decrease
- Increase
- Remain same
- Decrease then increase

No, the answer is incorrect.

Score: 0

Accepted Answers:

Increase

8) With increase in annealing temperature and annealing time, grain size will **1 point**

- Increase
- Decrease
- Remains constant

Decreases to half of its original value

No, the answer is incorrect.

Score: 0

Accepted Answers:

Increase

9) Steps involved in precipitation hardening in correct sequence are

1 point

- Aging, Solutionizing, Quenching
- Solutionizing, Quenching, Aging
- Aging, Quenching, Solutionizing
- Quenching, Solutionizing, Aging



No, the answer is incorrect.

Score: 0

Accepted Answers:

Solutionizing, Quenching, Aging

10) In Al-Cu precipitation hardened alloys, the equilibrium phase is

1 point

- Theta' (θ')
- Theta'' (θ'')
- Theta (θ)
- GP phase

No, the answer is incorrect.

Score: 0

Accepted Answers:

Theta (θ)

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