

Unit 4 - Week 2

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Magnetic particle testing - 1

Magnetic particle testing - 2

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Quiz : Week 2 Practice Assessment

Quiz : Assignment 2

Week 2 Feedback

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Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-02-12, 23:59 IST.

1) Magnetic particle inspection method is based on the principle of MFL at a discontinuity. Here, MFL stands for? 1 point

- Magnetic Field Lines
 Magnetic Field Loss
 Magnetic Flux Leakage
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Magnetic Flux Leakage

2) Which is useful for detecting sub-surface cracks in a sample? 1 point

- AC current
 DC current

No, the answer is incorrect.
Score: 0

Accepted Answers:
DC current

3) What is remanence? 1 point

- Remaining magnetic field after the removal of the external magnetizing field
 Magnetic field at which the magnetic flux reduces to zero
 Both a and b
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Remaining magnetic field after the removal of the external magnetizing field

4) In magnetic particle testing, for detection of small flaws, we use: 1 point

- Wet suspension of particles
 Dry particles
 Both of them
 None of them

No, the answer is incorrect.
Score: 0

Accepted Answers:
Wet suspension of particles

5) For inspection of a welded surface by magnetic particle testing, we use: 1 point

- Dry particles
 Wet suspension of particles
 Both of them
 None of them

No, the answer is incorrect.
Score: 0

Accepted Answers:
Dry particles

6) During magnetic particle inspection, skin effect is produced, only when: 1 point

- Direct Current is applied to the component
 Alternating Current is applied to the component
 Lot of cracks are present on the surface
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Alternating Current is applied to the component

7) A rectangular magnet bar is broken, along the length into three pieces, but these pieces are forcefully held together as one unit. Now: 1 point

- The unit will behave as a single magnet with one North and one South Pole
 There will be 3 North and 3 South Poles in the unit
 The unit will lose its magnetic character
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
There will be 3 North and 3 South Poles in the unit

8) In magnetic particle testing, which of the following doesn't include the direction of magnetic field? 1 point

- Ketos ring
 Pie gage
 QQI
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Ketos ring

9) In magnetic particle inspection, which of the following statement is True? 1 point

- Flaws perpendicular to the direction of magnetic field will not be detected
 Flaws parallel to the direction of magnetic field will have maximum visibility
 Flaws inclined to the direction of magnetic field may also be detected
 Detection of flaws depend on the field strength and not direction

No, the answer is incorrect.
Score: 0

Accepted Answers:
Flaws inclined to the direction of magnetic field may also be detected

10) The direction of magnetic field produced by a solenoid is: 1 point

- Longitudinal
 Circular
 Randomly oriented
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Longitudinal