

Unit 3 - Week 1

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Visual optical method

Dye Penetrant Testing - 1

Dye Penetrant Testing - 2

Dye Penetrant Testing - 3

Dye Penetrant Testing - 4

Quiz : Week 1 Practice Assessment

Quiz : Assignment 1

Week 1 Feedback : Theory and Practice of Non Destructive Testing

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

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Assignment 1

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) Identify the Non-destructive testing

1 point

- Corrosion testing
- Eddy current testing
- Compression testing
- Tensile testing
- Radiographic testing
- Both b and e

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both b and e

2) Which of the following equipment in NDT is used to inspect the inside portion of hollow chamber?

1 point

- Telescope
- Borescope
- Endoscope
- Microscope

No, the answer is incorrect.
Score: 0

Accepted Answers:
Borescope

3) What is the field of view range of rigid borescope?

1 point

- 10 to 180 degree
- 10 to 90 degree
- 0 to 90 degree
- 0 to 180 degree

No, the answer is incorrect.
Score: 0

Accepted Answers:
0 to 90 degree

4) Which of the following is not true about flexible borescope?

1 point

- Offer greater magnification
- Unable the use of extension tube
- Have zoom facility
- Used for rapid inspection

No, the answer is incorrect.
Score: 0

Accepted Answers:
Unable the use of extension tube

5) Acceptable methods of penetrant application are:

1 point

- Spraying
- Dipping
- Brushing
- All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All the above

6) In LPI, wetting or no wetting of the solid surface by a liquid is depend on _____ parameter:

1 point

- Contact angle
- Surface tension
- Viscosity
- Critical angle

No, the answer is incorrect.
Score: 0

Accepted Answers:
Contact angle

7) How one can reduce the 'dwell time' in LPI testing:

1 point

- Keeping surface clean
- Choosing the liquid with high degree of wettability
- Liquid with low viscosity
- All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All the above

8) Purpose of using the developer is:

1 point

- Prevent the part from corrosion after the LPI test
- Assists in reverse capillary action due to absorption ability of developers
- To ensure that the part has been correctly heat treated
- To create a contrast background for the penetrants to ensure better visibility of indications
- Both a and c
- Both b and d

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both b and d

9) Which of the following penetrant has a built-in emulsifier?

1 point

- Water washable
- Solvent removable
- Post emulsified
- Both b and c

No, the answer is incorrect.
Score: 0

Accepted Answers:
Water washable

10) What is likely result of incomplete removal of all excess penetrant from the test piece?

1 point

- Formation of relevant indications
- Formation of false indications
- Exaggeration of the size of relevant indications
- Both a and b

No, the answer is incorrect.
Score: 0

Accepted Answers:
Formation of false indications