

Unit 2 - week 1

Course outline

How does an NPTEL online course work?

week 1

- Concept of Steel Quality
- Typical Examples of Surface Defects
- Origin of Common Quality Problems
- Quiz : Week 1 Practice Assessment1
- Quiz : Assignment 1**
- Week 1 Feedback :Steel Quality: Role of Secondary Refining and Continuous Casting

week 2

Week 3

Week 4

Week 5

Week 6

Week 7

week 8

Week 9

Week 10

Week 11

Week 12

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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.

Either One or Two Solutions are Correct for Each Question .

When One Solution is Correct , choice of only the Correct One will give ONE mark. Choice of more than One will result in ZERO mark .

When Two Solutions are Correct , choice of only the TWO CORRECT will give ONE mark . Choice of more than Two will result in ZERO mark . One Correct Solution will give 0.5 mark

1) Quality of a steel product is :

1 point

- Application-specific
- Independent of application
- Both

No, the answer is incorrect.
Score: 0

Accepted Answers:
Application-specific

2) The following element is **not** an alloying element in steel :

1 point

- Mn
- P
- O
- C

No, the answer is incorrect.
Score: 0

Accepted Answers:
P
O

3) The following element is **normally regarded as residual** in steel :

1 point

- S
- Si
- H
- Cr

No, the answer is incorrect.
Score: 0

Accepted Answers:
S
H

4) The following is one of the attributes of a " good quality steel " :

1 point

- Low residuals
- High strength
- Low C
- Desirable chemistry

No, the answer is incorrect.
Score: 0

Accepted Answers:
Low residuals
Desirable chemistry

5) The **material quality level** achieved in a final steel product may originate from :

1 point

- Steel refining
- Continuous casting
- Subsequent processing

No, the answer is incorrect.
Score: 0

Accepted Answers:
Steel refining
Continuous casting

6) The undesirable quality of a final steel product may be manifested as :

1 point

- Visible surface defect
- Ultrasonic defect
- Neither

No, the answer is incorrect.
Score: 0

Accepted Answers:
Visible surface defect
Ultrasonic defect

7) " Clean steel " should have the following :

1 point

- Low C
- Low Total O
- Low S
- Fine grains

No, the answer is incorrect.
Score: 0

Accepted Answers:
Low Total O
Low S

8) The full form of " NMI " in steel is :

1 point

- Non magnetic intensity
- Non metallic inclusion
- Non magnetic inclusion

No, the answer is incorrect.
Score: 0

Accepted Answers:
Non metallic inclusion

9) Surface lamination on hot rolled and pickled steel is normally due to :

1 point

- Small NMI
- Large entrapment
- Longitudinal crack in casting

No, the answer is incorrect.
Score: 0

Accepted Answers:
Large entrapment
Longitudinal crack in casting

10) Metallurgical investigation of steel with undesirable quality can identify :

1 point

- Steel chemistry
- Genesis of defect
- Mechanical properties

No, the answer is incorrect.
Score: 0

Accepted Answers:
Genesis of defect