

Unit 5 - Week 03 - Physical ergonomics and introduction to Cognitive ergonomics

Course outline

How does an NPTEL online course work?

Week 0

Week 01 - Introduction and Overview of Ergonomics

Week 02- Work Physiology

Week 03 - Physical ergonomics and introduction to Cognitive ergonomics

Lecture 08

Lecture 09

Lecture 10

Quiz : Assignment_03

Feedback for week 03

Assignment_03 Solution

Week 04- Cognitive Ergonomics

Week 05 - Cognitive Ergonomics (Continued)

Week 06 - Physical Work Environment

Week 07 - Tools, Techniques & Research Methodology

Week 08- Work Study

Week 09- Manual Work System

Week 10- Industrial Accidents and Injuries

Week 11- Job evaluation in organizational ergonomics

Week 12- BioMechanics

Text Transcripts

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Assignment_03

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

Due on 2020-02-19, 23:59 IST.

1) What is not consider as an automatic body mechanism?

1 point

- Exercising
- Sweating
- Shivering
- Blood vessel contraction

No, the answer is incorrect.
Score: 0

Accepted Answers:
Exercising

2) Which of the following is true?

1 point

- Visual acuity is directly proportional to visual angle
- Visual acuity is inversely proportional to visual angle
- The second best source of information for our cognitive system is hearing
- None of the above
- Option b and c both

No, the answer is incorrect.
Score: 0

Accepted Answers:
Option b and c both

3) What is visual acuity?

1 point

- Ability to differentiate small details
- Ability to see micro scales
- Ability to see distant objects
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Ability to differentiate small details

4) What's the purpose of cognitive ergonomics?

1 point

- To study the cognition purpose involved with well-being of workers.
- To study operational settings involved with well-being of workers.
- To study cognition in work and operational settings in order to optimize human well-being and system performance.
- To study operational settings involved in system performances.

No, the answer is incorrect.
Score: 0

Accepted Answers:
To study cognition in work and operational settings in order to optimize human well-being and system performance.

5) "Height of kitchen cabinet" is an example of:

1 point

- Design for Adjust-ability
- Design for extreme users
- Design for different users
- Design for average users

No, the answer is incorrect.
Score: 0

Accepted Answers:
Design for extreme users

6) In the phenomenon of vision the light rays do not pass through:

1 point

- Iris
- Cornea
- Pupil
- Vitreous humor

No, the answer is incorrect.
Score: 0

Accepted Answers:
Iris

7) The priorities, when large number of controls and displays are to be arranged, are

1 point

1. First priority: Primary visual task
2. Second priority: Primary controls (interacting with primary visual task)
3. Third priority: Better controls-display relationships
4. Fourth priority: Location of frequently used items with easy use

Which of the above is not correctly matched?

- 1
- 2
- 3
- 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
4

8) Muscle endurance is:

1 point

- Linearly decreasing with time
- Linearly increasing with time
- Exponential decreasing with time
- Exponential increasing with time

No, the answer is incorrect.
Score: 0

Accepted Answers:
Exponential decreasing with time

9) According to ergonomics, all design has identifiable stages and will differ according to the situation but will invariably cover issues such as:

1 point

- Commissioning
- Detailed design
- Functional specification
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

10) What is the major source of information for human cognitive system?

1 point

- Audition
- Taste
- Olfaction
- Vision

No, the answer is incorrect.
Score: 0

Accepted Answers:
Vision