

Unit 6 - Week-4 : Introduction to Automotive Ergonomics - IV

Course outline

How to access the portal

Week 0 : Prerequisites

Week 1 : Introduction to Automotive Ergonomics - I

Week-2 : Introduction to Automotive Ergonomics - II

Week-3 : Introduction to Automotive Ergonomics - III

Week-4 : Introduction to Automotive Ergonomics - IV

● Lec-1: Virtual Ergonomics Evaluation Technique and its application in Automotive Design

Lec-2: Automotive Craftsmanship

Quiz : Assessment 4

Feedback form for week 4

Live Session

Text Transcripts

Assessment 4

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

Due on 2019-08-28, 23:59 IST.

1) Which one of the following is not an important milestone in the evolution of DHM software? **1 point**

- Geometric Primitives
 Surface Modelling
 3-D Motion Data Incorporation
 4G Data Package
 Stick Figures
 3-D Body Scanner Data Incorporation

No, the answer is incorrect.
Score: 0

Accepted Answers:
4G Data Package

2) Which one of the following is not the product's perceptual characteristic associated with automobile craftsmanship? **1 point**

- Volume/ size of the vehicle
 Engine noise
 odour of leather of seat
 colour scheme of interior
 visible gap between two adjacent components
 material quality

No, the answer is incorrect.
Score: 0

Accepted Answers:
Volume/ size of the vehicle

3) Jack DHM software was developed by **1 point**

- University of Twente, Netherlands
 Institute of Occupational Health, Finland
 University of Iowa, USA
 Delft University, Netherlands
 University of Pennsylvania, USA
 none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
University of Pennsylvania, USA

4) Craftsmanship can be defined as the perception of the customers/ consumers regarding any product's superior qualities which gives them the feel of well execution of the product by _____ craftsman. **1 point**

- Novice
 Expert/ skilled
 Untrained
 Intelligent
 Rural
 Artisan

No, the answer is incorrect.
Score: 0

Accepted Answers:
Expert/ skilled

5) Which of the following DHM software was developed by University of Iowa? **1 point**

- RAMSIS
 JACK
 SAMMIE
 BOEMAN
 SANTOS
 DELMIA

No, the answer is incorrect.
Score: 0

Accepted Answers:
SANTOS

6) While considering automotive craftsmanship the apt use of materials that produce pleasing odours must be considered to enhance the _____ features. **1 point**

- Visual Quality
 Sound Quality
 Touch-feel Quality
 Harmony Feature
 Smell Quality
 Fuel Economy

No, the answer is incorrect.
Score: 0

Accepted Answers:
Smell Quality

7) Which one of the following is not a valid method for measuring attributes of Craftsmanship? **1 point**

- Objective Measurements
 Layout Measurement
 Checklists
 Subjective Measurements
 User Studies
 Customer Clinics

No, the answer is incorrect.
Score: 0

Accepted Answers:
Layout Measurement

8) While considering fine craftsmanship; according to the Ring Model of Desirability the overall desirability of the service (or product) is dependent on the size of the _____ ring. **1 point**

- Inner
 Outer
 Middle
 Strongest
 Weakest
 Distorted

No, the answer is incorrect.
Score: 0

Accepted Answers:
Outer

9) Fine craftsmanship and mass production are sometimes even considered mutually **1 point**

- Beneficial
 symbiotic
 inclusive
 Unidirectional
 exclusive
 agonistic

No, the answer is incorrect.
Score: 0

Accepted Answers:
exclusive

10) ANYBODY and ANTHROPOS software were the prominent creation of **1 point**

- Chrysler Company, USA
 G.I.T., Germany
 IST GmbH, Germany
 Rockwell International, USA
 ISRO, India
 Deneb Robotics Inc., USA

No, the answer is incorrect.
Score: 0

Accepted Answers:
IST GmbH, Germany

11) DHM based virtual ergonomics evaluation is applicable for inaccessible and hazardous environment. **1 point**

- TRUE
 FALSE

No, the answer is incorrect.
Score: 0

Accepted Answers:
TRUE

12) While considering the fine craftsmanship; according to the KANO Model of quality, the performance qualities are mere satisfiers. **1 point**

- TRUE
 FALSE

No, the answer is incorrect.
Score: 0

Accepted Answers:
TRUE

13) SANTOS was the first human modelling software used in the late 1960s by Boeing Corporation. **1 point**

- TRUE
 FALSE

No, the answer is incorrect.
Score: 0

Accepted Answers:
FALSE

14) While considering fine craftsmanship; according to the Ring Model of Desirability the pleasing perception related features are the Generic features. **1 point**

- TRUE
 FALSE

No, the answer is incorrect.
Score: 0

Accepted Answers:
FALSE

15) Impression of design consistency among all the operational features and perfect harmony between materials and their finishes within a vehicle of a given brand are associated with better craftsmanship. **1 point**

- TRUE
 FALSE

No, the answer is incorrect.
Score: 0

Accepted Answers:
TRUE

16) Blind spot and obscuration zone are the parameters evaluated to carry out virtual **1 point**

- Clearance/ Interference Analysis
 Comfort/ Discomfort Analysis
 Vision Analysis
 Reach Analysis
 Ingress/Egress Analysis

No, the answer is incorrect.
Score: 0

Accepted Answers:
Vision Analysis

17) Step-over width and floor height are the parameters evaluated to carry out virtual **1 point**

- Clearance/ Interference Analysis
 Comfort/ Discomfort Analysis
 Vision Analysis
 Reach Analysis
 Ingress/Egress Analysis

No, the answer is incorrect.
Score: 0

Accepted Answers:
Ingress/Egress Analysis

18) Postural load and spinal load values are the parameters evaluated to carry out virtual **1 point**

- Clearance/ Interference Analysis
 Comfort/ Discomfort Analysis
 Vision Analysis
 Reach Analysis
 Ingress/Egress Analysis

No, the answer is incorrect.
Score: 0

Accepted Answers:
Comfort/ Discomfort Analysis

19) Seat track travel limit and occupant packaging are the parameters evaluated to carry out virtual **1 point**

- Clearance/ Interference Analysis
 Comfort/ Discomfort Analysis
 Vision Analysis
 Reach Analysis
 Ingress/Egress Analysis

No, the answer is incorrect.
Score: 0

Accepted Answers:
Clearance/ Interference Analysis

20) Steering wheel envelope and foot control envelope are the vital parameters evaluated to carry out virtual **1 point**

- Clearance/ Interference Analysis
 Comfort/ Discomfort Analysis
 Vision Analysis
 Reach Analysis
 Ingress/Egress Analysis

No, the answer is incorrect.
Score: 0

Accepted Answers:
Reach Analysis