

Unit 4 - Lectures for week-1

Course outline

How to access the portal?

Zero Assignment

Lectures for week-1

- Lecture – 1 : Introduction to Manufacturing Automation
- Lecture – 2 : Various aspects of Manufacturing Automation
- Lecture – 3 : Part Transfer Mechanisms
- Lecture – 4: Automated Flow Lines
- Lecture – 5 : Analysis of Automated Flow Lines

Quiz : Assignment-01

Assignment-01 Solution

Feedback for Week 1

Lectures for week-2

Lectures for week-3

Lectures for week-4

Live Session

Transcripts

Assignment-01

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

Due on 2019-08-14, 23:59 IST.

- 1) A truly automated system must have 1 point
- the ability to make a decision
 - the ability to carry out a decision
 - the ability to evaluate and correct performance
 - all the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
all the above

- 2) A truly automated system works 1 point
- in batch production
 - in the principle of a human brain
 - with partial intervention of human being
 - in the principle of an industrial robot

No, the answer is incorrect.
Score: 0

Accepted Answers:
in the principle of a human brain

- 3) In an automated system the decision is made by 1 point
- the system itself
 - the human being
 - both the system and the human being together
 - a stand-alone computer

No, the answer is incorrect.
Score: 0

Accepted Answers:
the system itself

- 4) Automation technology includes 1 point
- automatic machine tools
 - industrial robots
 - feedback control and computer process
 - all of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
all of the above

- 5) One of the benefits of automation is the greater flexibility through the use of standard production units. This is more beneficial in 1 point
- mass production
 - batch production
 - small lot production
 - flexible manufacturing system

No, the answer is incorrect.
Score: 0

Accepted Answers:
batch production

- 6) High cost of raw material is one of the reasons why automation should be introduced. This is because 1 point
- the labour cost of the production would be high otherwise
 - the output of the production would decrease otherwise
 - the waste in the automated production is less
 - value addition in raw material in automated production becomes cheaper

No, the answer is incorrect.
Score: 0

Accepted Answers:
the waste in the automated production is less

- 7) Manufacturing lead time indicates to 1 point
- the time between customer order and product delivery
 - the total production time
 - the machining time plus the idle time
 - the machining time, idle time and the tool changing time together

No, the answer is incorrect.
Score: 0

Accepted Answers:
the time between customer order and product delivery

- 8) In automation the manufacturing lead time is reduced due to 1 point
- higher production rate in automated industry
 - exact time for all activities could be maintained in the automated production
 - efficient management in automated production
 - high accuracy of automated production

No, the answer is incorrect.
Score: 0

Accepted Answers:
exact time for all activities could be maintained in the automated production

- 9) Total processing time can be reduced by 1 point
- specialized operations
 - simultaneous operations
 - combined operations
 - efficient plant operation control

No, the answer is incorrect.
Score: 0

Accepted Answers:
simultaneous operations

- 10) One of the features of the programmable automation is 1 point
- high investment in general-purpose equipment
 - high initial investment for custom-engineered equipment
 - high investment for a custom-engineered system
 - high production rate

No, the answer is incorrect.
Score: 0

Accepted Answers:
high investment in general-purpose equipment