REAL WORLD CONSIDERATIONS

Environmental Consequences

QUIZ (PART 3, MANUFACTURING)

Question 1

How much additional city (regular) water does it take to make ultrapure water?

a. About twice as much

b. Less than twice as much

c. About the same amount

d. Over three times as much

Question 2

One square foot of printed circuit board requires approximately how much water to manufacture?

a. 1.5 cubic meters

b. 0.15 cubic meters

c. 0.14 cubic meters

d. 0.5 cubic meters

e. None of the above

Question 3

Which of the following techniques can process engineers use to reduce water consumption during electronics manufacturing?

a. Reduce component counts on printed circuit boards

b. Optimize integrated circuit designs to reduce chip size

c. Replace wet processes with dry processes

d. All of the above

Environmental Consequences

Question 4

The water used in a semiconductor fabrication facility every day could satisfy the thirst of a community of 300 for:

a. 11.5 months

b. 12.5 years

c. 146 years

d. 8,000 years

Question 5

Over-specifying an engineering design has minimal environmental impact and guarantees the customer will be satisfied with a product.

a. True

b. False