



Qualifying

Rank these hydrogen feedstocks in terms of the volume of hydrogen currently produced per year, from the highest to the lowest.

a) Natural Gas

b) Oil

c) Coal

d) Electrolysis

***Answer:* a) Natural Gas (48%)**

b) Oil (30%)

c) Coal (18%)

d) Electrolysis (4%)

Question 1

A famous dirigible accident in 1937 continues to persist in the public's perception of hydrogen safety. This dirigible was named the:

- a) Graf Zeppelin b) Hindenburg**
- c) Goodyear Blimp d) Oscar Meyer**

***Answer:* b) Hindenburg**

Question 2

The approximate number of local code jurisdictions in the United States is:

a) 400

b) 44,000

c) 210,000

d) As many as stars in the sky

Answer: b) 44,000

Question 3

The only acceptable material of construction for liquid hydrogen storage tanks is:

- a) Carbon Steel
- b) Copper
- c) Stainless Steel
- d) Brass

***Answer:* c) Stainless Steel**

Question 4

Which European city has the first commercial hydrogen fuel station?

- a) London, England b) Reykjavik, Iceland
- c) Amsterdam, The Netherlands d) Paris, France

***Answer:* b) Reykjavik, Iceland**

Question 5

Which process is currently used to produce about 95% of the hydrogen made in the U.S.?

a) Electrolysis

b) Partial Oxidation

c) Pyrolysis

d) Steam Reforming

***Answer:* d) Steam Reforming**

Question 6

The U.S. hydrogen industry currently produces 9 million tons of hydrogen per year for use in chemicals production, petroleum refining, metals treating, and electrical applications. How many hydrogen cars would this amount fuel?

- a) 20,000-30,000 b) 200,000-300,000
c) 2,000,000-3,000,000 d) 20,000,000-30,000,000

***Answer:* d) 20,000,000-30,000,000**

Question 7

The maximum number of hydrogen-fueled passenger motor vehicles allowed to be stored in a public garage that also contains a system to refuel those vehicles is:

a) 3

b) 5

c) 10

d) unlimited

Answer: a) 3

Question 9

Hydrogen fires normally are not extinguished until the supply of hydrogen is shut off. However, small hydrogen fires have been extinguished by all of the following except:

- a) Wet chemical extinguishers**
- b) Dry chemical extinguishers**
- c) Carbon dioxide**
- d) Steam**

Answer: a) Wet chemical extinguishers

Question 10

Your company manufactures a fuel cell power system certified under ANSI Z21.83, Fuel Cell Power Plants. This standard, however, is presently being updated and renamed ANSI/CSA FC 1, Stationary Fuel Cell Power Systems. How long a “grace period” after CSA FC 1 is published should you expect to have until you must get your existing designs re-certified?

a) 30 days

b) 90 days

c) 1 year

d) Never. As long as we do not change our existing design we can always just remain certified to ANSI Z21.83

Answer: c) 1 year